

Trying 3106016892...Open

Welcome to STN International! Enter x:x  
LOGINID:SSSPTA1632JXW  
PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Dec 17	The CA Lexicon available in the CAPLUS and CA files
NEWS	3	Feb 06	Engineering Information Encompass files have new names
NEWS	4	Feb 16	TOXLINE no longer being updated
NEWS	5	Apr 23	Search Derwent WPINDEX by chemical structure
NEWS	6	Apr 23	PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS	7	May 07	DGENE Reload
NEWS	8	Jun 20	Published patent applications (A1) are now in USPATFULL
NEWS	9	JUL 13	New SDI alert frequency now available in Derwent's DWPI and DPCI
NEWS	10	Aug 23	In-process records and more frequent updates now in MEDLINE
NEWS	11	Aug 23	PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
NEWS	12	Aug 23	Adis Newsletters (ADISNEWS) now available on STN
NEWS	13	Sep 17	IMSworld Pharmaceutical Company Directory name change to PHARMASEARCH
NEWS	14	Oct 09	Korean abstracts now included in Derwent World Patents Index
NEWS	15	Oct 09	Number of Derwent World Patents Index updates increased
NEWS	16	Oct 15	Calculated properties now in the REGISTRY/ZREGISTRY File
NEWS	17	Oct 22	Over 1 million reactions added to CASREACT
NEWS	18	Oct 22	DGENE GETSIM has been improved
NEWS	19	Oct 29	AAASD no longer available
NEWS	20	Nov 19	New Search Capabilities USPATFULL and USPAT2
NEWS	21	Nov 19	TOXCENTER(SM) - new toxicology file now available on STN
NEWS	22	Nov 29	COPPERLIT now available on STN
NEWS	23	Nov 29	DWPI revisions to NTIS and US Provisional Numbers
NEWS	24	Nov 30	Files VETU and VETB to have open access
NEWS	25	Dec 10	WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS	26	Dec 10	DGENE BLAST Homology Search
NEWS	27	Dec 17	WELDASEARCH now available on STN
NEWS	28	Dec 17	STANDARDS now available on STN
NEWS	29	Dec 17	New fields for DPCI
NEWS	30	Dec 19	CAS Roles modified
NEWS	31	Dec 19	1907-1946 data and page images added to CA and Caplus
NEWS EXPRESS		August 15	CURRENT WINDOWS VERSION IS V6.0c, CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP), AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
NEWS PHONE			Direct Dial and Telecommunication Network Access to STN
NEWS WWW			CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:39:29 ON 11 JAN 2002

=> file registry

FILE 'REGISTRY' ENTERED AT 10:39:37 ON 11 JAN 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2

DICTIONARY FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2

TS/CA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

Uploading dithio.str

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 10:40:05 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 327 TO ITERATE

100.0% PROCESSED 327 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 5456 TO 7624

PROJECTED ANSWERS: 4088 TO 5992

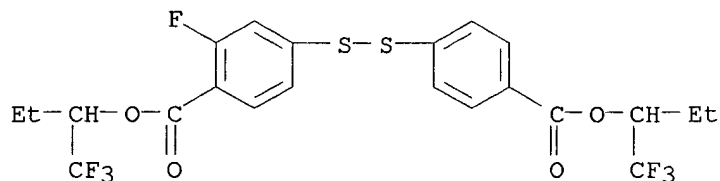
L2 50 SEA SSS SAM L1

=> d l2

L2 ANSWER 1 OF 50 REGISTRY COPYRIGHT 2002 ACS

RN 377778-32-0 REGISTRY

CN Benzoic acid,  
 2-fluoro-4-[[4-[[1-(trifluoromethyl)propoxy]carbonyl]phenyl]  
 dithio]-, 1-(trifluoromethyl)propyl ester (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C22 H19 F7 O4 S2  
 SR CA  
 LC STN Files: CA, CAPLUS

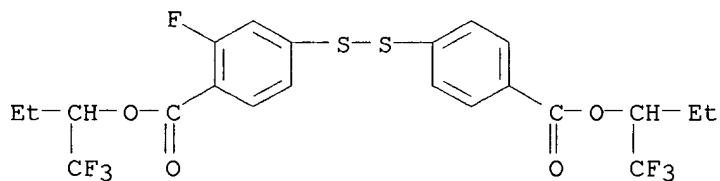


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 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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L2 ANSWER 1 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 377778-32-0 REGISTRY  
 CN Benzoic acid,  
 2-fluoro-4-[[4-[[1-(trifluoromethyl)propoxy]carbonyl]phenyl]  
 dithio]-, 1-(trifluoromethyl)propyl ester (9CI) (CA INDEX NAME)  
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 SR CA  
 LC STN Files: CA, CAPLUS



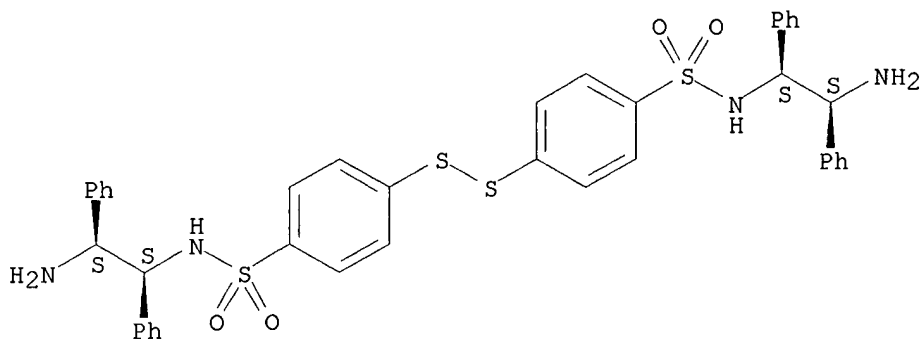
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L2 ANSWER 2 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 357611-98-4 REGISTRY  
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 (9CI) (CA INDEX NAME)  
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 SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.

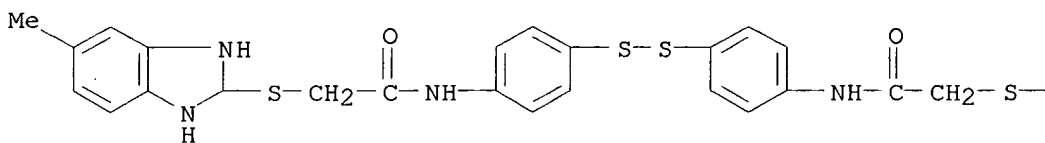


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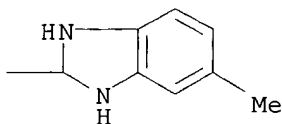
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L2 ANSWER 3 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 348141-37-7 REGISTRY  
CN Acetamide, N,N'-(dithiodi-4,1-phenylene)bis[2-[(2,3-dihydro-5-methyl-1H-benzimidazol-2-yl)thio]- (9CI) (CA INDEX NAME)  
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MF C32 H32 N6 O2 S4  
SR Chemical Library  
LC STN Files: CHEMCATS

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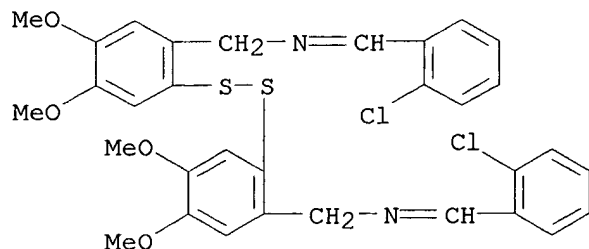
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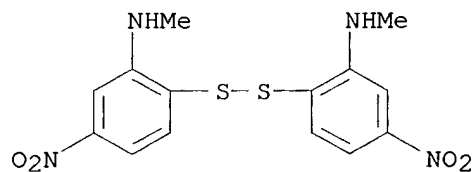
L2 ANSWER 4 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 344767-88-0 REGISTRY  
CN Benzenemethanamine, 2,2'-dithiobis[N-[(2-chlorophenyl)methylene]-4,5-

dimethoxy- (9CI) (CA INDEX NAME)  
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 MF C32 H30 Cl2 N2 O4 S2  
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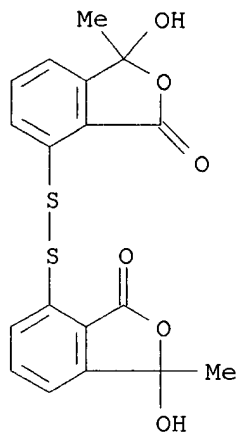
L2 ANSWER 5 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 341551-73-3 REGISTRY  
 CN Benzenamine, 2,2'-dithiobis[N-methyl-5-nitro- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C14 H14 N4 O4 S2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 6 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 335279-65-7 REGISTRY  
 CN 1(3H)-Isobenzofuranone, 7,7'-dithiobis[3-hydroxy-3-methyl- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C18 H14 O6 S2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXLIT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 7 OF 50 REGISTRY COPYRIGHT 2002 ACS

RN 329364-11-6 REGISTRY

CN Poly[oxy[2-ethyl-2-(hydroxymethyl)-1,3-propanediyl]thio-1,4-phenylenedithio-1,4-phenylenethio[2-ethyl-2-(hydroxymethyl)-1,3-propanediyl]] (9CI) (CA INDEX NAME)

MF (C24 H32 O3 S4)n

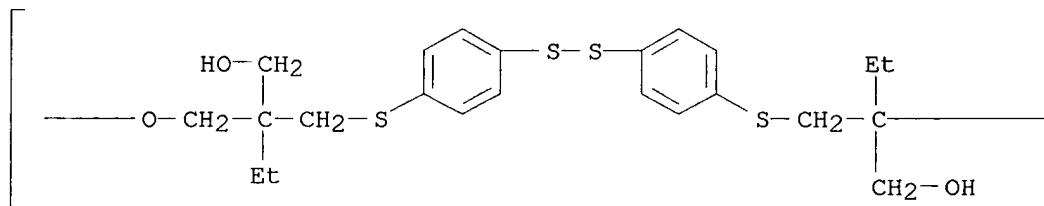
CI PMS

PCT Polyether, Polysulfide, Polythioether

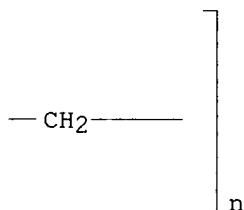
SR CA

LC STN Files: CA, CAPLUS

PAGE 1-A

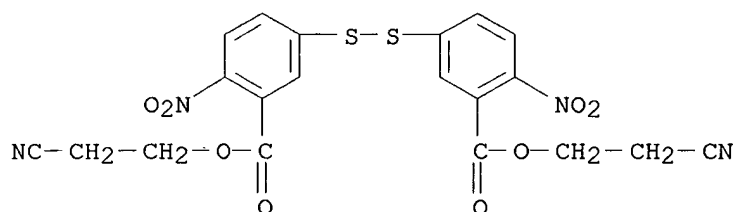


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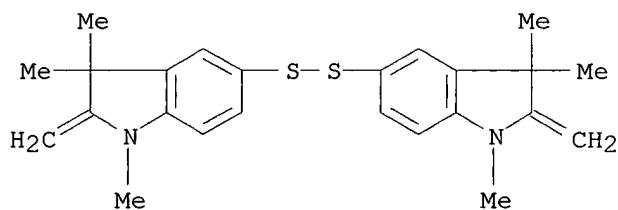
L2 ANSWER 8 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 313056-27-8 REGISTRY  
CN Benzoic acid, 3,3'-dithiobis[6-nitro-, bis(2-cyanoethyl) ester (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C20 H14 N4 O8 S2  
SR CA  
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL



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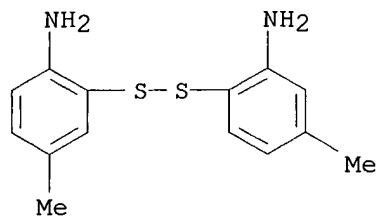
L2 ANSWER 9 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 306735-90-0 REGISTRY  
CN 1H-Indole, 5,5'-dithiobis[2,3-dihydro-1,3,3-trimethyl-2-methylene- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C24 H28 N2 S2  
SR Chemical Library  
LC STN Files: CHEMCATS



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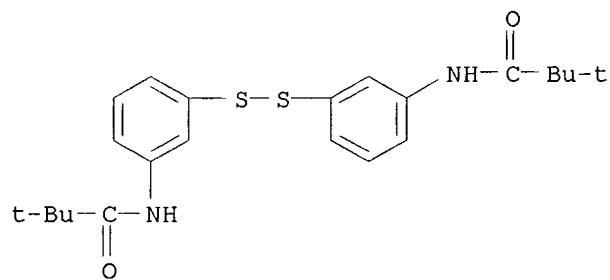
L2 ANSWER 10 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 304660-58-0 REGISTRY  
CN Benzenamine, 2-[(2-amino-4-methylphenyl)dithio]-4-methyl- (9CI) (CA INDEX NAME)  
FS 3D CONCORD

MF C14 H16 N2 S2  
SR Chemical Library  
LC STN Files: CHEMCATS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L2 ANSWER 11 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 303054-96-8 REGISTRY  
CN Propanamide, N,N'-(dithiodi-3,1-phenylene)bis[2,2-dimethyl- (9CI) (CA  
INDEX NAME)  
FS 3D CONCORD  
MF C22 H28 N2 O2 S2  
SR CA  
LC STN Files: CA, CAPLUS



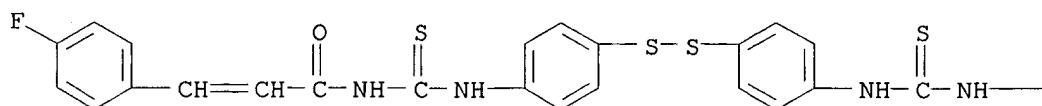
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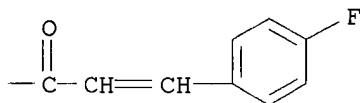
L2 ANSWER 12 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 294651-35-7 REGISTRY  
CN 2-Propenamide, N,N'-[dithiobis(4,1-phenyleneiminocarbonothioyl)]bis[3-(4-  
fluorophenyl)- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C32 H24 F2 N4 O2 S4  
SR Chemical Library  
LC STN Files: CHEMCATS



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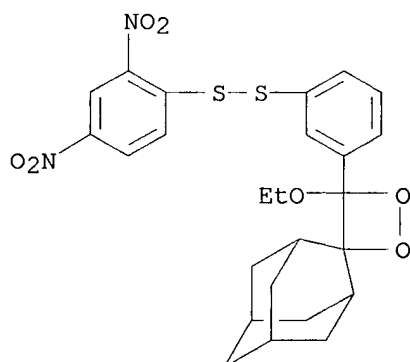


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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L2 ANSWER 13 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 287171-81-7 REGISTRY  
CN Spiro[1,2-dioxetane-3,2'-tricyclo[3.3.1.1<sup>3,7</sup>]decane], 4-[3-[(2,4-dinitrophenyl)dithio]phenyl]-4-ethoxy- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C25 H26 N2 O7 S2  
SR CA  
LC STN Files: CA, CAPLUS, CASREACT

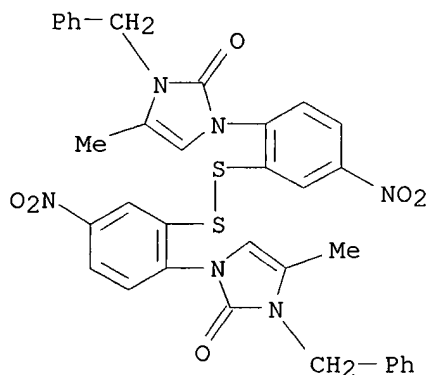


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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 14 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 279688-00-5 REGISTRY  
CN 2H-Imidazol-2-one,  
1,1'-[dithiobis(4-nitro-2,1-phenylene)]bis[1,3-dihydro-4-methyl-3-(phenylmethyl)- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C34 H28 N6 O6 S2  
SR CA

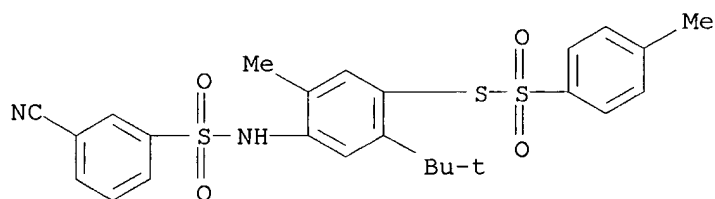
LC STN Files: CA, CAPLUS, CASREACT



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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 15 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 263843-13-6 REGISTRY  
CN Benzenesulfonylthioic acid, 4-methyl-, S-[4-[[3-cyanophenyl)sulfonyl]amino]-2-(1,1-dimethylethyl)-5-methylphenyl] ester (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C25 H26 N2 O4 S3  
SR CA  
LC STN Files: CA, CAPLUS, TOXLIT

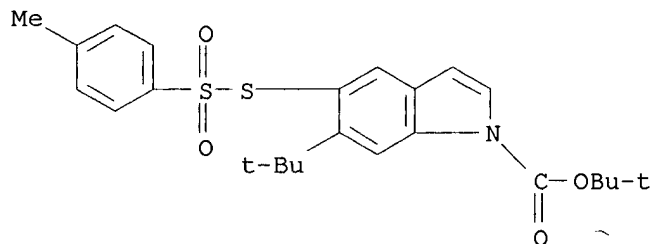


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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 16 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 261709-56-2 REGISTRY  
CN 1H-Indole-1-carboxylic acid, 6-(1,1-dimethylethyl)-5-[[4-methylphenyl)sulfonyl]thio]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C24 H29 N O4 S2  
SR CA

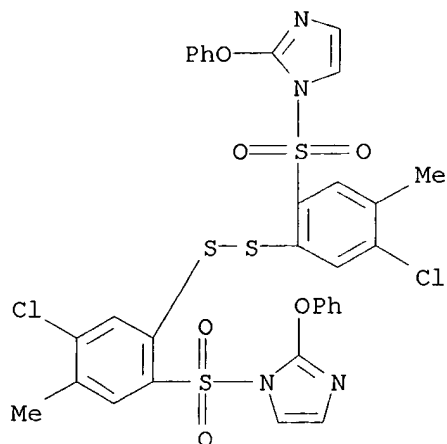
LC STN Files: CA, CAPLUS, TOXCENTER



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2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 17 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 256513-63-0 REGISTRY  
CN 1H-Imidazole, 1,1'-[dithiobis[(4-chloro-5-methyl-2,1-phenylene)sulfonyl]]bis[2-phenoxy- (9CI) (CA INDEX NAME)  
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SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

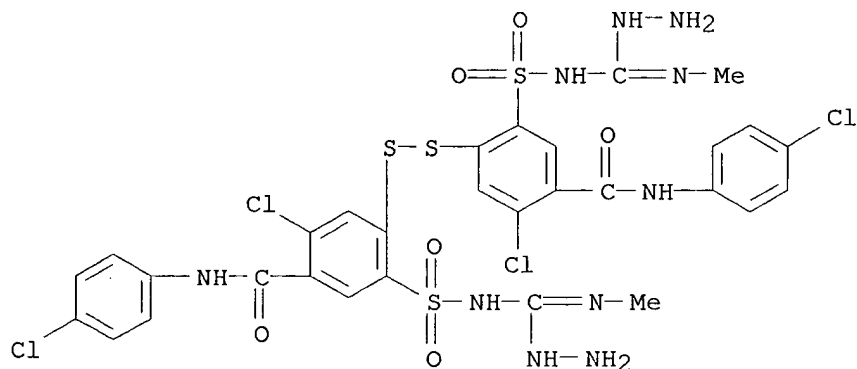


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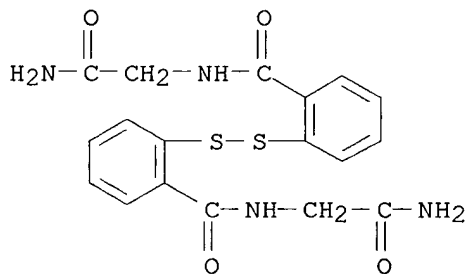
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RN 256513-21-0 REGISTRY  
CN Benzamide, 4,4'-dithiobis[2-chloro-N-(4-chlorophenyl)-5-[[[hydrazino(methylamino)methylene]amino]sulfonyl]- (9CI) (CA INDEX NAME)  
NAME)

FS 3D CONCORD  
 MF C30 H28 Cl4 N10 O6 S4  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER



1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 19 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 252898-12-7 REGISTRY  
 CN Benzamide, 2,2'-dithiobis[N-(2-amino-2-oxoethyl)- (9CI) (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, USPATFULL

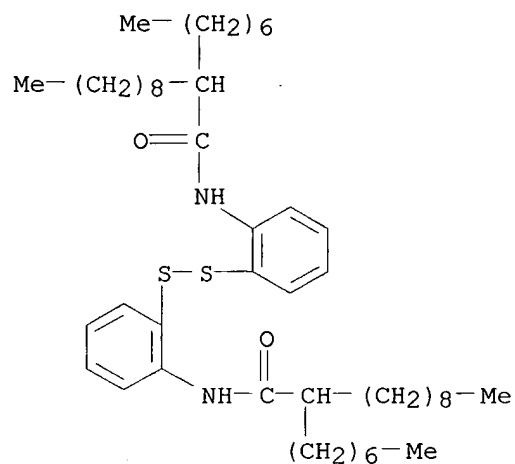


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1 REFERENCES IN FILE CA (1967 TO DATE)  
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L2 ANSWER 20 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 244779-62-2 REGISTRY  
 CN Undecanamide, N,N'-(dithiodi-2,1-phenylene)bis[2-heptyl- (9CI) (CA INDEX NAME)  
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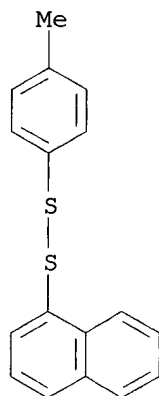
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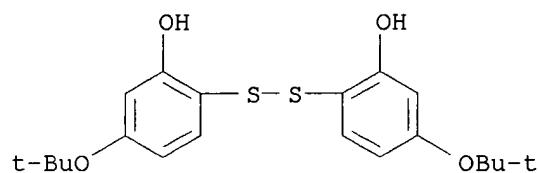
L2 ANSWER 21 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 243124-46-1 REGISTRY  
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FS 3D CONCORD  
MF C17 H14 S2  
SR CA  
LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 22 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 225663-68-3 REGISTRY  
 CN Phenol, 2,2'-dithiobis[5-(1,1-dimethylethoxy)- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C20 H26 O4 S2  
 SR CA  
 LC STN Files: CA, CAPLUS

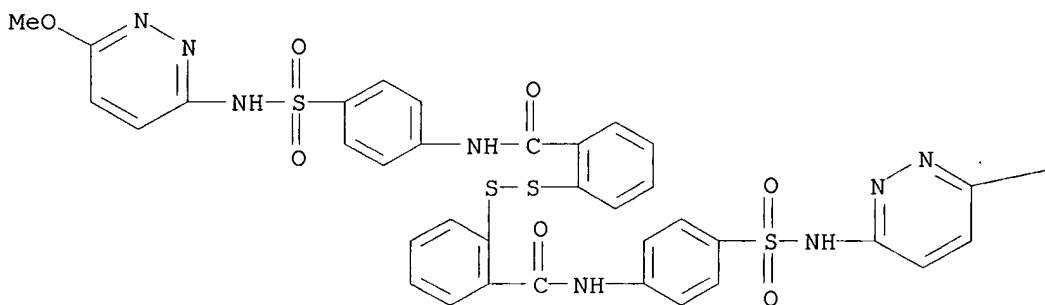


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 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 23 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 221119-65-9 REGISTRY  
 CN Benzamide, 2,2'-dithiobis[N-(4-[[ (6-methoxy-3-pyridazinyl)amino]sulfonyl]phenyl)- (9CI) (CA INDEX NAME)  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL

PAGE 1-A



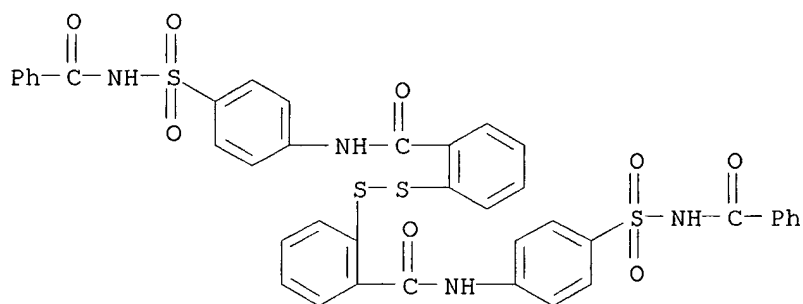
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 24 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 221119-57-9 REGISTRY  
CN Benzamide, 2,2'-dithiobis[N-[4-[(benzoylamino)sulfonyl]phenyl]- (9CI)  
(CA INDEX NAME)  
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LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL

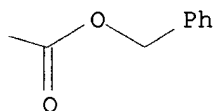
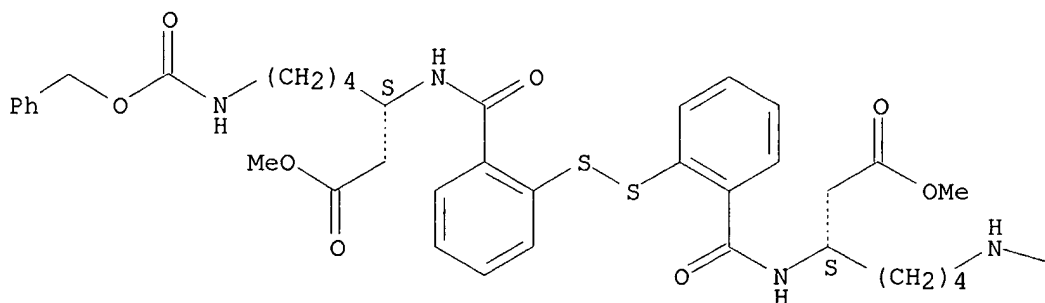


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2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 25 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 219309-94-1 REGISTRY  
CN Heptanoic acid, 3,3'-[dithiobis(2,1-phenylenecarbonylimino)]bis[7-  
[[ (phenylmethoxy)carbonyl]amino]-, dimethyl ester, (3S,3'S)- (9CI) (CA  
INDEX NAME)  
FS STEREOSEARCH  
MF C46 H54 N4 O10 S2  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



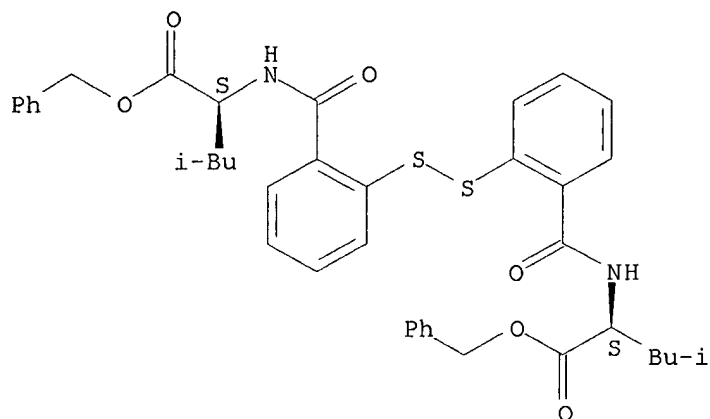
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 26 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 219309-71-4 REGISTRY  
CN L-Leucine, N,N'-[dithiobis(2,1-phenylenecarbonyl)]bis-, bis(phenylmethyl)  
ester (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C40 H44 N2 O6 S2  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



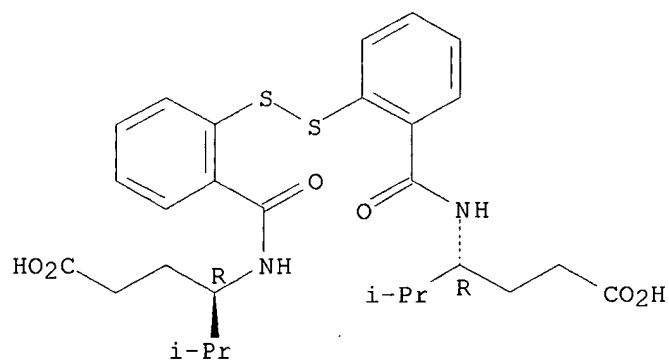


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 27 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 219309-56-5 REGISTRY  
CN Hexanoic acid, 4,4'-[dithiobis(2,1-phenylenecarbonylimino)]bis[5-methyl-,  
(4R,4'R)-(9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C28 H36 N2 O6 S2  
SR CA  
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

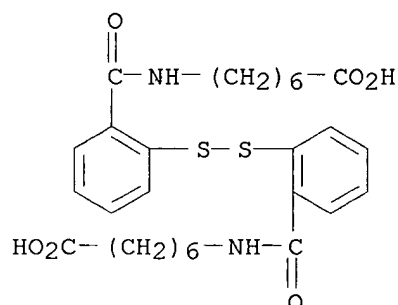


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 28 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 219309-41-8 REGISTRY  
CN Heptanoic acid, 7,7'-[dithiobis(2,1-phenylenecarbonylimino)]bis- (9CI)

(CA INDEX NAME)  
 FS 3D CONCORD  
 MF C28 H36 N2 O6 S2  
 SR CA  
 LC STN Files: CA, CAPLUS

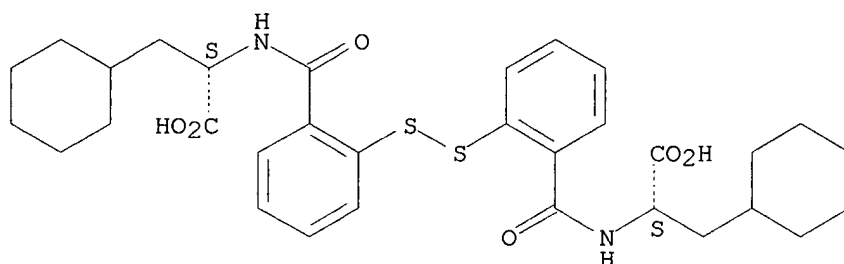


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 29 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 219309-24-7 REGISTRY  
 CN Cyclohexanepropanoic acid, .alpha.,.alpha.'-[dithiobis(2,1-phenylenecarbonylimino)]bis-, (.alpha.S,.alpha.'S)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C32 H40 N2 O6 S2  
 SR CA  
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

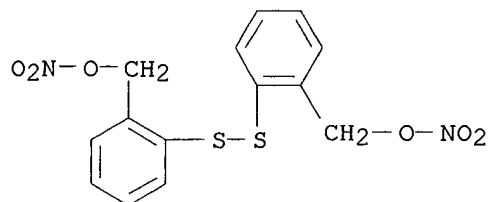


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 30 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 213982-40-2 REGISTRY  
 CN Benzenemethanol, 2,2'-dithiobis-, dinitrate (9CI) (CA INDEX NAME)

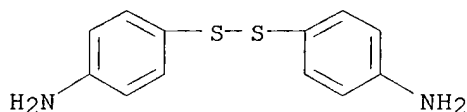
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 MF C14 H12 N2 O6 S2  
 SR CA  
 LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

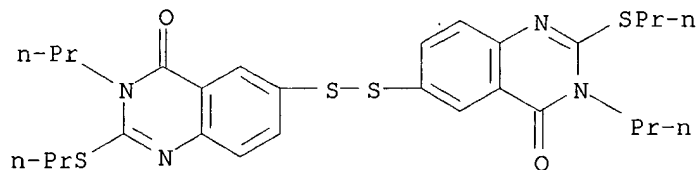
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 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 31 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 213126-89-7 REGISTRY  
 CN Benzenamine, 4,4'-dithiobis-, radical ion(1+) (9CI) (CA INDEX NAME)  
 MF C12 H12 N2 S2  
 CI RIS  
 SR CA  
 LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 32 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 209604-69-3 REGISTRY  
 CN 4(3H)-Quinazolinone, 6,6'-dithiobis[3-propyl-2-(propylthio)- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C28 H34 N4 O2 S4  
 SR CA  
 LC STN Files: CA, CAPLUS

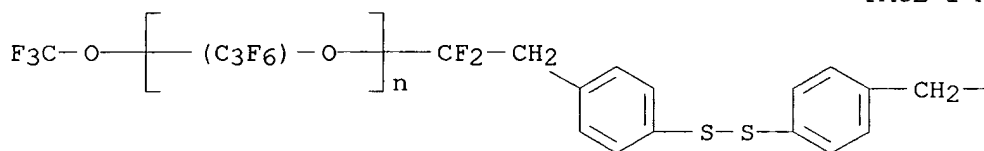


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

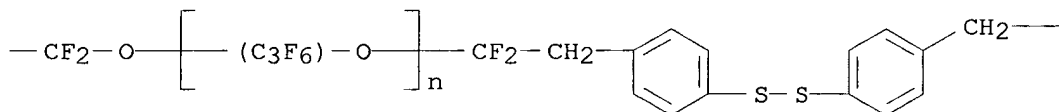
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 33 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 208645-95-8 REGISTRY  
CN Poly[oxy(trifluoro(trifluoromethyl)-1,2-ethanediyl)], .alpha.-[2-[4-[[4-(2,2-difluoro-2-hydroxyethyl)phenyl]dithio]phenyl]-1,1-difluoroethyl]-.omega.-(trifluoromethoxy)-, ether with .alpha.-hydro-.omega.-hydroxypoly[oxy(trifluoro(trifluoromethyl)-1,2-ethanediyl)] (2:1) (9CI) (CA INDEX NAME)  
MF (C3 F6 O)n (C3 F6 O)n (C3 F6 O)n C34 H24 F14 O3 S4  
CI IDS, PMS  
PCT Polyether  
SR CA  
LC STN Files: CA, CAPLUS

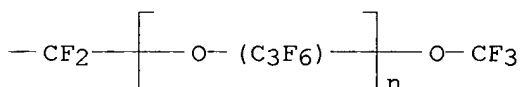
PAGE 1-A



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PAGE 1-C

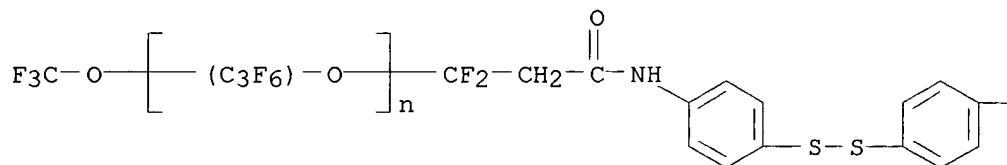


1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

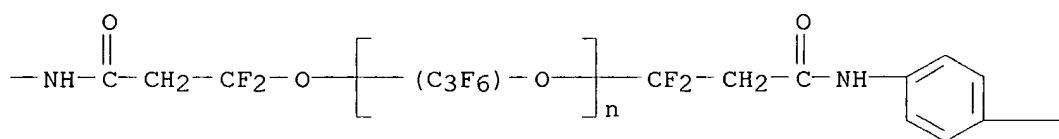
L2 ANSWER 34 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 208645-94-7 REGISTRY  
CN Poly[oxy(trifluoro(trifluoromethyl)-1,2-ethanediyl)], .alpha.-[3-[[4-[[4-[(3,3-difluoro-3-hydroxy-1-oxopropyl)amino]phenyl]dithio]phenyl]amino]-1,1-difluoro-3-oxopropyl]-.omega.-(trifluoromethoxy)-, ether with .alpha.-hydro-.omega.-hydroxypoly[oxy(trifluoro(trifluoromethyl)-1,2-ethanediyl)] (2:1) (9CI) (CA INDEX NAME)  
MF (C3 F6 O)n (C3 F6 O)n (C3 F6 O)n C38 H28 F14 N4 O7 S4  
CI IDS, PMS  
PCT Polyether

SR CA  
LC STN Files: CA, CAPLUS

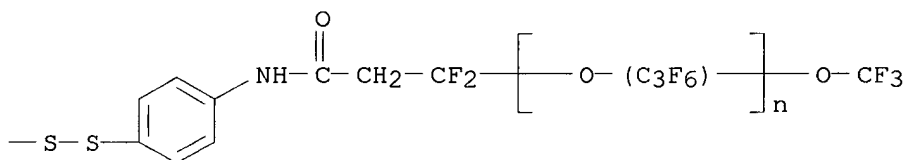
PAGE 1-A



PAGE 1-B



PAGE 1-C



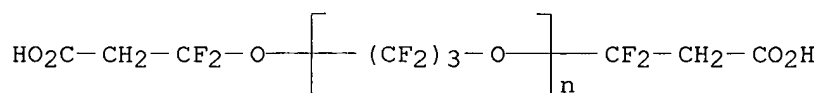
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 35 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 208536-52-1 REGISTRY  
CN Benzenamine, 4,4'-dithiobis-, polymer with .alpha.-(2-carboxy-1,1-difluoroethyl)-.omega.-(2-carboxy-1,1-difluoroethoxy)poly[oxy(1,1,2,2,3,3-hexafluoro-1,3-propanediyl)] (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Poly[oxy(1,1,2,2,3,3-hexafluoro-1,3-propanediyl)], .alpha.-(2-carboxy-1,1-difluoroethyl)-.omega.-(2-carboxy-1,1-difluoroethoxy)-, polymer with 4,4'-dithiobis[benzenamine] (9CI)  
MF (C12 H12 N2 S2 . (C3 F6 O)n C6 H6 F4 O5)x  
CI PMS  
PCT Polyamide, Polyamide formed, Polyester, Polyester formed, Polyether, Polysulfide  
SR CA  
LC STN Files: CA, CAPLUS

CM 1

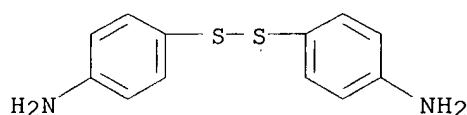
CRN 208594-63-2

CMF (C3 F6 O)n C6 H6 F4 O5  
CCI PMS



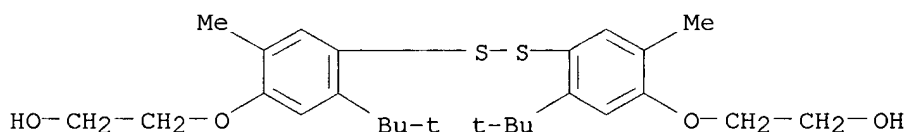
CM 2

CRN 722-27-0  
CMF C12 H12 N2 S2



1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 36 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 207737-12-0 REGISTRY  
CN Ethanol, 2,2'-[dithiobis[[5-(1,1-dimethylethyl)-2-methyl-4,1-phenylene]oxy]]bis- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C26 H38 O4 S2  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



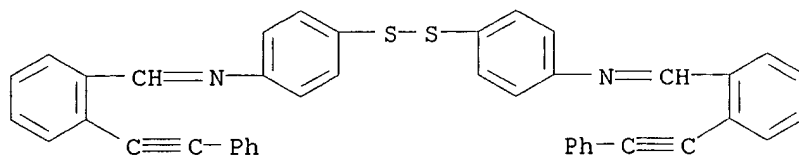
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 37 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 204018-02-0 REGISTRY  
CN Benzenamine, 4,4'-dithiobis[N-[[2-(phenylethynyl)phenyl]methylene]-, homopolymer (9CI) (CA INDEX NAME)  
MF (C42 H28 N2 S2)x  
CI PMS  
PCT Polyacetylene  
SR CA  
LC STN Files: CA, CAPLUS

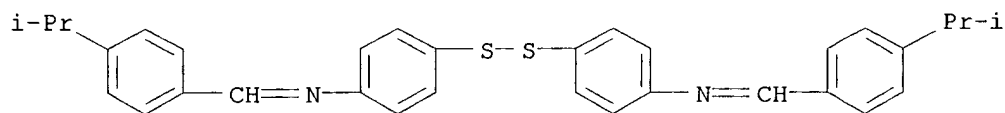
CM 1

CRN 204017-92-5  
CMF C42 H28 N2 S2



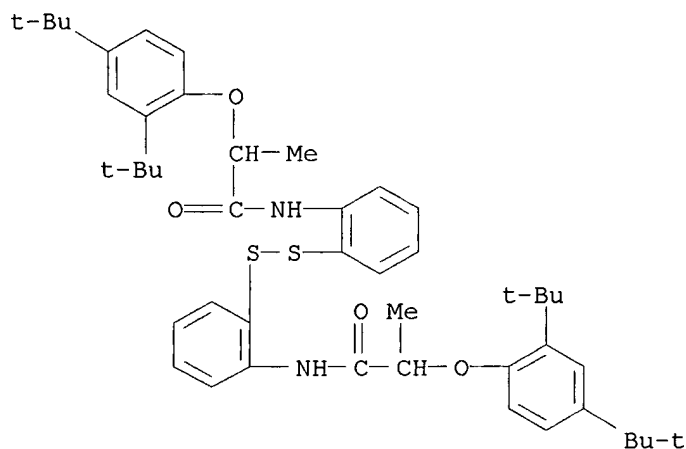
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 38 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 198899-35-3 REGISTRY  
CN Benzenamine, 4,4'-dithiobis[N-[[4-(1-methylethyl)phenyl]methylene]- (9CI)  
(CA INDEX NAME)  
FS 3D CONCORD  
MF C32 H32 N2 S2  
SR CAS Registry Services  
LC STN Files: CHEMCATS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

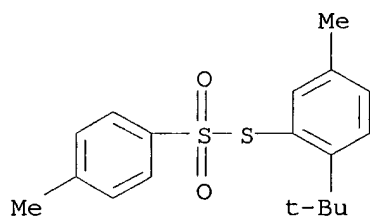
L2 ANSWER 39 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 198696-53-6 REGISTRY  
CN Propanamide, N,N'-(dithiodi-2,1-phenylene)bis[2-[2,4-bis(1,1-dimethylethyl)phenoxy]- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C46 H60 N2 O4 S2  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 40 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 198123-72-7 REGISTRY  
CN Benzenesulfonothioic acid, 4-methyl-, S-[2-(1,1-dimethylethyl)-5-methylphenyl] ester (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C18 H22 O2 S2  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL

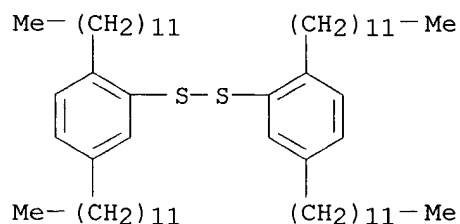


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1967 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 41 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 195822-63-0 REGISTRY  
CN Disulfide, bis(2,5-didodecylphenyl) (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C60 H106 S2  
SR CA  
LC STN Files: CA, CAPLUS

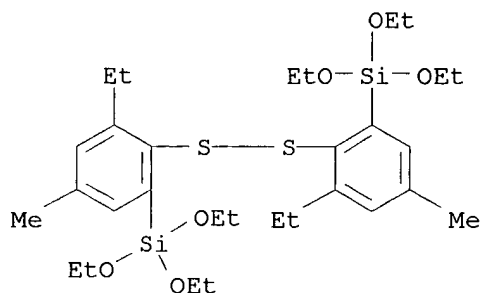




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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

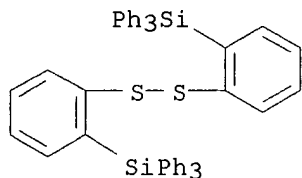
L2 ANSWER 42 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 194299-62-2 REGISTRY  
CN Silane, [dithiobis(3-ethyl-5-methyl-2,1-phenylene)]bis[triethoxy- (9CI)  
(CA INDEX NAME)  
MF C30 H50 O6 S2 Si2  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
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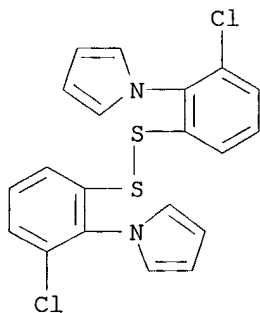
L2 ANSWER 43 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 189943-50-8 REGISTRY  
CN Silane, (dithiodi-2,1-phenylene)bis[triphenyl- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C48 H38 S2 Si2  
SR CA  
LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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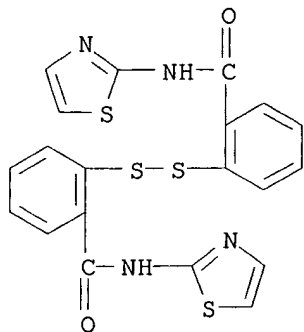
L2 ANSWER 44 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 189883-68-9 REGISTRY  
CN 1H-Pyrrole, 1,1'-[dithiobis(6-chloro-2,1-phenylene)]bis- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C20 H14 Cl2 N2 S2  
SR CA  
LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 45 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 189367-88-2 REGISTRY  
CN Benzamide, 2,2'-dithiobis[N-2-thiazolyl]- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C20 H14 N4 O2 S4  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT

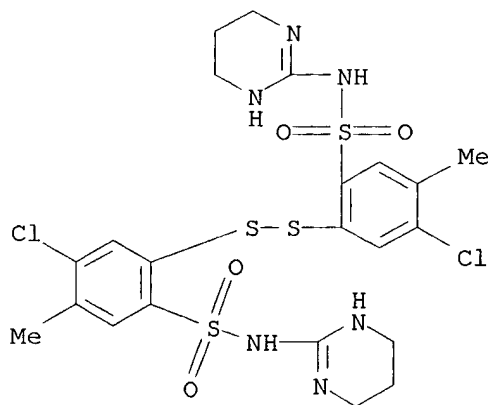


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 46 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 189127-04-6 REGISTRY  
 CN Benzenesulfonamide,  
 2,2'-dithiobis[4-chloro-5-methyl-N-(3,4,5,6-tetrahydro-  
 2-pyrimidinyl)- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C22 H26 Cl2 N6 O4 S4  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

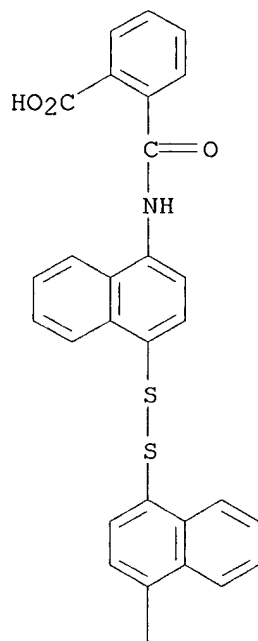
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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

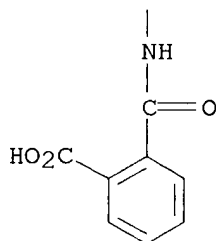
L2 ANSWER 47 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 187744-17-8 REGISTRY  
 CN Benzoic acid, 2,2'-[dithiobis(4,1-naphthalenediyliminocarbonyl)]bis-  
 (9CI)  
 (CA INDEX NAME)

FS 3D CONCORD  
MF C36 H24 N2 O6 S2  
SR CA  
LC STN Files: CA, CAPLUS

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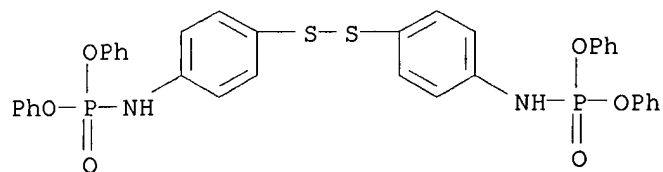


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 48 OF 50 REGISTRY COPYRIGHT 2002 ACS  
RN 187744-16-7 REGISTRY  
CN Phosphoramidic acid, (dithiodi-4,1-phenylene)bis-, tetraphenyl ester  
(9CI)  
(CA INDEX NAME)

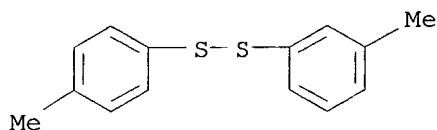
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 SR CA  
 LC STN Files: CA, CAPLUS



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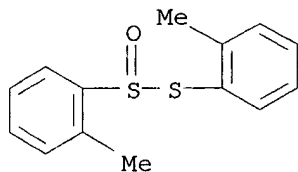
L2 ANSWER 49 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 186098-97-5 REGISTRY  
 CN Disulfide, 3-methylphenyl 4-methylphenyl (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C14 H14 S2  
 SR CA  
 LC STN Files: CA, CAPLUS

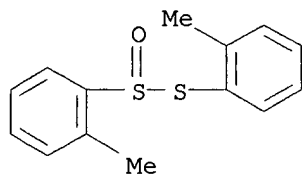


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L2 ANSWER 50 OF 50 REGISTRY COPYRIGHT 2002 ACS  
 RN 186098-94-2 REGISTRY  
 CN Benzenesulfinothioic acid, 2-methyl-, S-(2-methylphenyl) ester (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C14 H14 O S2  
 SR CA  
 LC STN Files: CA, CAPLUS





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> S (LINKER)  
L3 839 (LINKER)

=> DIS L3 1 RN

L3 ANSWER 1 OF 839 REGISTRY COPYRIGHT 2002 ACS  
RN 366521-36-0 REGISTRY

=> FILE REG

FILE 'REGISTRY' ENTERED AT 10:43:24 ON 11 JAN 2002  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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STRUCTURE FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2  
DICTIONARY FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> STR 366521-36-0

366521-36-0 MAY NOT BE USED AS A MODEL  
Structures which were created via the STRUCTURE command or are in the  
Fragment File may be used as models in the STRUCTURE command. Most,  
but not all, substance Accession Numbers can also be used.  
ENTER NAME OF STRUCTURE TO BE RECALLED (NONE):END

=>

THIS FEATURE IS NOT AVAILABLE FOR THE SELECTED CAS RN

=> s l2 and linker  
839 LINKER  
L4 0 L2 AND LINKER

=> s l2 and link  
157 LINK  
L5 0 L2 AND LINK

=> FIL REGISTRY

FILE 'REGISTRY' ENTERED AT 10:45:18 ON 11 JAN 2002  
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STRUCTURE FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2  
DICTIONARY FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L2 47 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L6 1 187744-17-8/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

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FILE COVERS 1907 - 11 Jan 2002 VOL 136 ISS 2  
FILE LAST UPDATED: 9 Jan 2002 (20020109/ED)

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=> S L6

L7 1 L6

=> DIS L7 1 TI

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

TI Thermal processing type silver halide photographic material containing a disulfide derivative

=> DIS L7 1 TI

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

TI Thermal processing type silver halide photographic material containing a disulfide derivative

=> FIL REGISTRY

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STRUCTURE FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2  
DICTIONARY FILE UPDATES: 9 JAN 2002 HIGHEST RN 381664-84-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L2 31 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L8 1 213126-89-7/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

FILE 'CAPLUS' ENTERED AT 10:46:12 ON 11 JAN 2002  
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=> S L8

L9 1 L8

=> DIS L9 1 TI

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
TI Photochemical Reactions between C60 and Aromatic Thiols. Protonation of C60 via Photoinduced Electron Transfer

=> file caplus

FILE 'CAPLUS' ENTERED AT 10:46:42 ON 11 JAN 2002  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 11 Jan 2002 VOL 136 ISS 2  
FILE LAST UPDATED: 9 Jan 2002 (20020109/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAPLUS now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please

check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

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=> d his

(FILE 'HOME' ENTERED AT 10:39:29 ON 11 JAN 2002)

FILE 'REGISTRY' ENTERED AT 10:39:37 ON 11 JAN 2002

L1 STRUCTURE UPLOADED  
L2 50 S L1  
L3 839 S (LINKER)

FILE 'REGISTRY' ENTERED AT 10:43:24 ON 11 JAN 2002

L4 0 S L2 AND LINKER  
L5 0 S L2 AND LINK

FILE 'REGISTRY' ENTERED AT 10:45:18 ON 11 JAN 2002

SET TERMSET E#  
DEL SEL Y  
SEL L2 47 RN  
L6 1 S E1/RN  
SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 10:45:24 ON 11 JAN 2002

L7 1 S L6

FILE 'REGISTRY' ENTERED AT 10:46:06 ON 11 JAN 2002

SET TERMSET E#  
DEL SEL Y  
SEL L2 31 RN  
L8 1 S E1/RN  
SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 10:46:12 ON 11 JAN 2002

L9 1 S L8

FILE 'CAPLUS' ENTERED AT 10:46:42 ON 11 JAN 2002

=> s l2

L10 40 L2

=> d l10 1-40 ti

L10 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI Antiferroelectric liquid crystal composition and liquid crystal element using it

L10 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI Compound containing a labile disulfide bond

L10 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI Compound containing a labile disulfide bond

L10 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI Synthesis of water-soluble amino sulfonamide ligands and their application in enantioselective transfer hydrogenation

L10 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI Selective cellular targeting: multifunctional delivery vehicles

L10 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI Polythioethers having pendant hydroxymethyl groups with good hydrophilicity, dyeability, and solvent solubility, and their manufacture

L10 ANSWER 7 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI 7-(4,6-dimethoxypyrimidinyl)oxy- and -thiophthalides as novel herbicides: part 1. CGA 279 233: a new grass-killer for rice

L10 ANSWER 8 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI A compound containing a labile disulfide bond

L10 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI Bis[2-(Acylamino)phenyl] Disulfides, 2-(Acylamino)benzenethiols, and S-[2-(Acylamino)phenyl] Alkanethioates as Novel Inhibitors of Cholesteryl Ester Transfer Protein

L10 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI Preparation of spiro[1,2-dioxetane-3,2'-adamantane] derivatives as chemiluminescent reagents for determination of thiols and acetylcholinesterase

L10 ANSWER 11 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI Ring transformation of 3-(2-oxopropyl)-2(3H)-benzothiazolone in reaction with primary amine

L10 ANSWER 12 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI Synthesis of Heterocyclic Thiosulfonates

L10 ANSWER 13 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI Preparation of dihydropyrones with tethered heterocycles as HIV protease inhibitors

L10 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI 5,6-Dihydropyran-2-ones Possessing Various Sulfonyl Functionalities: Potent Nonpeptidic Inhibitors of HIV Protease

L10 ANSWER 15 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI Nonpeptidic HIV protease inhibitors possessing excellent antiviral activities and therapeutic indices. PD 178390: a lead HIV protease inhibitor

L10 ANSWER 16 OF 40 CAPLUS COPYRIGHT 2002 ACS

TI Preparation of benzamide thiolesters, disulfides, benzisothiazolones, and related compounds as inactivators of zinc finger containing retroviruses.

L10 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI Molecular assembly and micellization of molybdenum(V,IV) thiolate and selenolate complexes with long hydrocarbon chains

L10 ANSWER 18 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI Syntheses of 1-amino-2-(4-chloro-2-mercaptobenzenesulfonyl)guanidine derivatives with potential pharmacological activity

L10 ANSWER 19 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI Syntheses of some  
 2-hydroxy-1-[(4-chloro-2-mercaptophenyl)sulfonyl]imidazole derivatives with potential anticancer activity

L10 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI Sodium selenoborate for reduction of arylsulfonyl chlorides, sodium arylsulfonates, and aryl arylsulfonates

L10 ANSWER 21 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI A solid-phase technology for the preparation of combinatorial libraries through amide-bond anchoring

L10 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI Synthesis and Biological Properties of Novel Pyridinioalkanoyl Thioloesters  
 (PATE) as Anti-HIV-1 Agents That Target the Viral Nucleocapsid Protein Zinc Fingers

L10 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI 2,2'-Dithiobisbenzamides derived from .alpha.-, .beta.- and .gamma.-amino acids possessing anti-HIV activities: synthesis and structure-activity relationship

L10 ANSWER 24 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI Preparation of aromatic and heterocyclic nitrate derivatives as vasodilators

L10 ANSWER 25 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI Photochemical Reactions between C60 and Aromatic Thiols. Protonation of C60 via Photoinduced Electron Transfer

L10 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI Preparation of fungicidal quinazolinones

L10 ANSWER 27 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI Preparation of 3-arylthio-6-arylethyl-4-hydroxy-5,6-dihydropyran-2-ones as antiretrovirals.

L10 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI Magnetic recording medium and recording apparatus using same

L10 ANSWER 29 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI Electroconductive polymers from Schiff's base monomers end-capped with terminal phenylacetylene groups. II

L10 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 TI Photographic element containing recrystallizable 5-pyrazolone photographic

coupler

- L10 ANSWER 31 OF 40 CAPLUS COPYRIGHT 2002 ACS  
TI 4-Hydroxy-5,6-dihydropyrones. 2. Potent Non-Peptide Inhibitors of HIV Protease
- L10 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2002 ACS  
TI Synthesis and structural characterization of alkyl-substituted oligo(thio-1,4-phenylene)s
- L10 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2002 ACS  
TI Process for the preparation of organosilicon disulfide compounds
- L10 ANSWER 34 OF 40 CAPLUS COPYRIGHT 2002 ACS  
TI Silver halide photographic material containing sulfonyl and/or disulfide compound as fog inhibitor
- L10 ANSWER 35 OF 40 CAPLUS COPYRIGHT 2002 ACS  
TI Bis[2-(triphenylsilyl)phenyl] disulfide
- L10 ANSWER 36 OF 40 CAPLUS COPYRIGHT 2002 ACS  
TI New pyrrolobenzothiazepine derivatives as molecular probes of the "peripheral-type" benzodiazepine receptor (PBR) binding site
- L10 ANSWER 37 OF 40 CAPLUS COPYRIGHT 2002 ACS  
TI A new class of anti-HIV-1 agents targeted toward the nucleocapsid protein NCp7: the 2,2'-dithiobisbenzamides
- L10 ANSWER 38 OF 40 CAPLUS COPYRIGHT 2002 ACS  
TI Thermal processing type silver halide photographic material containing a disulfide derivative
- L10 ANSWER 39 OF 40 CAPLUS COPYRIGHT 2002 ACS  
TI Derivatives of 2-mercaptobenzenesulfonamide. XIX. Syntheses, anticancer and anti-HIV activities of some 2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrimidines
- L10 ANSWER 40 OF 40 CAPLUS COPYRIGHT 2002 ACS  
TI The "Thio-Arbuzov" reaction of sulfenate esters with sulfenyl chlorides: fate of the thiosulfinate product

=> d l10 1-10 all

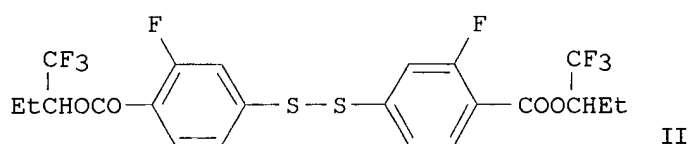
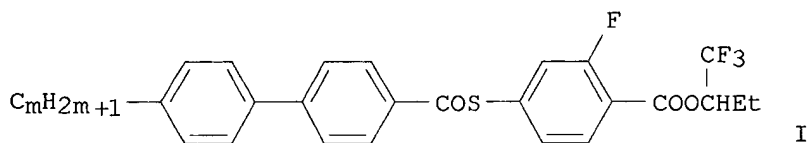
- L10 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 2001:873232 CAPLUS  
DN 136:29244  
TI Antiferroelectric liquid crystal composition and liquid crystal element using it  
IN Aihara, Yoshihiko; Mogamiya, Hiroyuki; Yamakawa, Noriko  
PA Showa Shell Sekiyu K. K., Japan  
SO Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
IC ICM C07C327-32  
ICS C07C323-62; C09K019-02; C09K019-28; G02F001-13  
CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other

Reprographic Processes)

Section cross-reference(s): 25, 75

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001335558	A2	20011204	JP 2000-156521	20000526
GI					



AB The liq. crystal compn. has phase transition temp.  $\geq 90^\circ\text{C}$ .  
from

antiferroelec. phase or tristable phase to SmA (smectic A) phase measured by temp. rising process and response speed ( $\tau$ )  $\leq 5.0 \mu\text{s}$  at temp. lower than  $(T - 40)^\circ\text{C}$ . ( $T$  = the phase transition temp.).

4-(1,1,1-Trifluorobutyloxycarbonyl)-3-fluorophenyl-4'-alkylbiphenyl-4-thiocarboxylate I ( $m = 5-11$ ) liq. crystal compd. is prepd. by the

reaction

of 4-(1,1,1-trifluorobutyl-2-oxycarbonyl)-3-fluorophenyl disulfide II

with

4'-alkyl-4-biphenylcarboxylic acid  $\text{C}_m\text{H}_{2m+1}(\text{p-C}_6\text{H}_4)(\text{p-C}_6\text{H}_4)\text{CO}_2\text{H}$  ( $m = 5-11$ ).

4-(1,1,1-Trifluorobutyl-2-oxycarbonyl)-3-fluorophenyl disulfide II is also

claimed. Ferroelec. or antiferroelec. liq. crystal compn. contains I and liq. crystal element contains the compn. The compn. shows antiferroelec. or tristable phase at high temp. and rapid response in wide temp. range.

ST liq crystal antiferroelec ferroelec; biphenyl thiocarboxylate liq crystal compd

IT Liquid crystal displays

(antiferroelec. or tristable liq. crystal compn. contg. di-Ph thiocarboxylate compd.)

IT Antiferroelectric materials

Ferroelectric materials

(liq.-crystal; antiferroelec. or tristable liq. crystal compn. contg. di-Ph thiocarboxylate compd.)

IT Liquid crystals

(smectic; antiferroelec. or tristable liq. crystal compn. contg. di-Ph thiocarboxylate compd.)

IT 377778-29-5

RL: DEV (Device component use); PNU (Preparation, unclassified); PRP (Properties); PREP (Preparation); USES (Uses)

(antiferroelec. or tristable liq. crystal compn. contg. di-Ph

thiocarboxylate compd.)

IT 377778-22-8 377778-23-9 377778-25-1 377778-27-3 377778-28-4  
377778-30-8

RL: DEV (Device component use); PRP (Properties); USES (Uses)  
(antiferroelec. or tristable liq. crystal compn. contg. di-Ph  
thiocarboxylate compd.)

IT **377778-32-0**

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);  
RACT (Reactant or reagent)  
(prepn. and reaction with biphenyl carboxylic acid)

IT 403-24-7, 2-Fluoro-4-nitrobenzoic acid 446-31-1 210416-38-9  
210416-39-0

RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);  
RACT (Reactant or reagent)  
(prepn. of di-Ph disulfide compd.)

IT 1427-07-2, 2-Fluoro-4-nitrotoluene

RL: RCT (Reactant); RACT (Reactant or reagent)  
(prepn. of di-Ph disulfide compd.)

IT 101054-97-1 115154-83-1, 4'-Decyl-4-biphenylcarboxylic acid

RL: RCT (Reactant); RACT (Reactant or reagent)  
(prepn. of of thiocarboxylate liq. crystal compd.)

L10 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 2001:851787 CAPLUS

DN 136:11089

TI Compound containing a labile disulfide bond

IN Wolff, Jon A.; Monahan, Sean D.; Budker, Vladimir G.; Slattum, Paul M.;  
Rozema, David B.

PA USA

SO U.S. Pat. Appl. Publ., 23 pp., Cont.-in-part of U.S. Ser. No. 312,351.  
CODEN: USXXCO

DT Patent

LA English

IC ICM A61K048-00  
ICS A61K038-00; C07H021-04; C07K014-00

NCL 514044000

CC 63-5 (Pharmaceuticals)  
Section cross-reference(s): 1

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 2001044417	A1	20011122	US 2001-779791	20010208
PRAI	US 1999-312351	A2	19990514		

AB A labile disulfide-contg. compd. under physiol. conditions contg. a  
labile

disulfide bond and a transduction signal is disclosed. A process for  
delivery of a compd. to a cell, comprising assocg. a compd. contg. a  
disulfide bond that can be cleaved under physiol. conditions, with a  
polymer, then delivering the polymer to the cell. The polymer may  
comprise a first polymer and a second polymer. The first polymer and the  
second polymer may comprise nucleic acids, proteins, genes, antisense  
polymers, DNA/RNA hybrids, or synthetic polymers.

ST drug delivery disulfide conjugate protein DNA

IT Proteins

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL  
(Biological study); PROC (Process)  
(ANTP, signalling; compd. contg. a labile disulfide bond)

IT Proteins



RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)  
 (VP22, signalling; compd. contg. a labile disulfide bond)

IT Polyelectrolytes  
 (cationic; compd. contg. a labile disulfide bond)

IT Peptides, biological studies  
 RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)  
 (cationic; compd. contg. a labile disulfide bond)

IT Disulfide group  
 Drug delivery systems  
 Gene therapy  
 Particle size  
 Plasmid vectors  
 Signal transduction, biological  
 Transformation, genetic  
 (compd. contg. a labile disulfide bond)

IT Nucleic acids  
 RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)  
 (compd. contg. a labile disulfide bond)

IT Thiols (organic), biological studies  
 RL: BPR (Biological process); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)  
 (compd. contg. a labile disulfide bond)

IT DNA  
 RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (complexes; compd. contg. a labile disulfide bond)

IT Mammal (Mammalia)  
 (drug delivery to; compd. contg. a labile disulfide bond)

IT Drug delivery systems  
 (injections, i.m.; compd. contg. a labile disulfide bond)

IT Drug delivery systems  
 (prodrugs; compd. contg. a labile disulfide bond)

IT Transcription factors  
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)  
 (tat, signalling; compd. contg. a labile disulfide bond)

IT 27025-41-8, Oxidized glutathione  
 RL: BPR (Biological process); BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)  
 (cleavage of; compd. contg. a labile disulfide bond)

IT 25104-18-1DP, Poly-L-lysine, complexes 38000-06-5DP, Poly-L-lysine, complexes  
 RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (compd. contg. a labile disulfide bond)

IT 56-17-7, Cystamine dihydrochloride 56-18-8 56-89-3, L-Cystine  
 69-78-3 112-57-2, Tetraethylenepentamine 538-75-0,  
 Dicyclohexylcarbodiimide 627-18-9 722-27-0, 4-Aminophenyl disulfide  
 1738-25-6, 3-Dimethylaminopropionitrile 4067-16-7,  
 Pentaethylenhexamine  
 4097-89-6, Tris(2-aminoethyl)amine 4741-99-5 6066-82-6,  
 N-Hydroxysuccinimide 7087-68-5, Diisopropylethylamine 7209-38-3,  
 1,4-Bis(3-aminopropyl)piperazine 13531-52-7 25988-63-0, Poly-L-lysine

hydrobromide 52328-05-9, O-Methylisourea hydrogen sulfate 58632-95-4,  
 2-(tert-Butoxycarbonyloxyimino)-2-phenylacetonitrile 62796-29-6  
 106754-95-4, 4'-(Aminomethyl)fluorescein 289888-15-9 289888-16-0  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (compd. contg. a labile disulfide bond)

IT 10389-65-8P 13551-09-2P 60129-38-6P **313056-27-8P**  
 313056-28-9P 313056-31-4P 313056-32-5P 371246-55-8P  
 375377-92-7DP,  
 Tat conjugates 375377-93-8P 375377-94-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (compd. contg. a labile disulfide bond)

IT 289888-07-9P 289888-08-0P 289888-09-1P 289888-10-4P 289888-11-5P  
 289888-12-6P 289888-14-8P 313056-35-8P 313056-36-9P 371246-57-0P  
 371246-59-2P 371246-66-1P  
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological  
 study); PREP (Preparation); USES (Uses)  
 (compd. contg. a labile disulfide bond)

L10 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 AN 2001:798751 CAPLUS  
 DN 135:344919  
 TI Compound containing a labile disulfide bond  
 IN Wolff, Jon A.; Monahan, Sean D.; Budker, Vladimir G.; Slattum, Paul M.;  
 Rozema, David B.  
 PA USA  
 SO U.S. Pat. Appl. Publ., 22 pp., Division of U.S. Ser. No. 312,351.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 IC ICM A61K048-00  
 ICS A61K038-00; C07H021-02; C07H021-04  
 NCL 514044000  
 CC 35-5 (Chemistry of Synthetic High Polymers)  
 Section cross-reference(s): 33, 34, 63  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001036926	A1	20011101	US 2001-795607	20010228
PRAI	US 1998-85764	P	19980516		
	US 1999-312351	A3	19990514		

AB A labile disulfide-contg. compd. under physiol. conditions, comprises the  
 disulfide-contg. compd. having a labile disulfide bond that is either a  
 disulfide bond that is cleaved more rapidly than oxidized glutathione or  
 a  
 disulfide bond constructed from thiols in which one of the constituent  
 thiols has a lower pKa than glutathione or a disulfide bond that is  
 activated by intramol. attack from a free thiol. Copolymers may be  
 prepd.  
 by the condensation of N-(2-Aminoethyl)-1,3-propanediamine and Di-Me  
 5,5'-dithiobis(2-nitrobenzoate)propionimide-2 HCl.  
 ST aminoethyl propanediamine methyl dithiobisnitrobenzoate propionimide  
 copolymer; disulfide bond contg polymer cleavable physiol condition  
 IT Transformation, genetic  
 (compd. contg. a labile disulfide bond for polymer delivery to cell)  
 IT Nucleotides, preparation  
 Peptides, preparation  
 RL: IMF (Industrial manufacture); PREP (Preparation)

(compd. contg. a labile disulfide bond for polymer delivery to cell)

IT DNA  
 RL: BPR (Biological process); RCT (Reactant); BIOL (Biological study);  
 PROC (Process)  
 (complexes with labile disulfide bond contg. polymer; compd. contg. a  
 labile disulfide bond for polymer delivery to cell)

IT Plasmid vectors  
 (pCI Luc, complexes with DNA; compd. contg. a labile disulfide bond  
 for  
 polymer delivery to cell)

IT 9002-98-6D, complexes with DNA 25104-18-1D, Poly-L-Lysine, complexes  
 with DNA 38000-06-5D, Poly-L-Lysine, complexes with DNA 289888-07-9D,  
 complexes with DNA 289888-09-1D, complexes with DNA 289888-10-4D,  
 complexes with DNA 289888-11-5D, complexes with DNA 289888-12-6D,  
 complexes with DNA 289888-14-8D, complexes with DNA 289888-15-9D,  
 complexes with DNA 313056-28-9D, complexes with DNA 313056-34-7D,  
 complexes with DNA 313056-37-0D, complexes with DNA  
 RL: BPR (Biological process); BIOL (Biological study); PROC (Process)  
 (compd. contg. a labile disulfide bond for polymer delivery to cell)

IT 289888-07-9P 289888-08-0P 289888-09-1P 289888-10-4P 289888-11-5P  
 289888-12-6P 289888-14-8P 289888-15-9P 313056-29-0P 313056-34-7P  
 371246-55-8P 371246-57-0P 371246-58-1P 371246-59-2P 371246-60-5P  
 371246-61-6P 371246-62-7P 371246-63-8P 371246-64-9P 371246-65-0P  
 371246-66-1P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (compd. contg. a labile disulfide bond for polymer delivery to cell)

IT 13551-09-2P 313056-31-4P 313056-32-5P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation)  
 (compd. contg. a labile disulfide bond for polymer delivery to cell)

IT 56-89-3, L-Cystine, reactions 69-78-3, 5,5'-Dithiobis(2-nitrobenzoic  
 acid) 109-78-4, 3-Hydroxypropionitrile 627-18-9 1738-25-6,  
 3-Dimethylaminopropionitrile 6066-82-6, N-Hydroxysuccinimide  
 52328-05-9, O-Methylisourea hydrogen sulfate 58632-95-4,  
 2-(tert-Butoxycarbonyloxyimino)-2-phenylacetoneitrile  
 RL: RCT (Reactant)  
 (compd. contg. a labile disulfide bond for polymer delivery to cell)

IT 371246-56-9P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (prepn. and deprotection; compd. contg. a labile disulfide bond for  
 polymer delivery to cell)

IT 10389-65-8P 60129-38-6P **313056-27-8P** 313056-28-9P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation)  
 (prepn. and polymn.; compd. contg. a labile disulfide bond for polymer  
 delivery to cell)

IT 70-18-8, Glutathione, reactions  
 RL: RCT (Reactant)  
 (reducing agent; compd. contg. a labile disulfide bond for polymer  
 delivery to cell)

L10 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 2001:402263 CAPLUS

DN 135:210788

TI Synthesis of water-soluble amino sulfonamide ligands and their  
 application

in enantioselective transfer hydrogenation

AU Bubert, C.; Blacker, J.; Brown, S. M.; Crosby, J.; Fitzjohn, S.;  
 Muxworthy, J. P.; Thorpe, T.; Williams, J. M. J.

CS Department of Chemistry, University of Bath, Bath, BA2 7AY, UK

SO Tetrahedron Lett. (2001), 42(24), 4037-4039  
 CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Science Ltd.

DT Journal

LA English

CC 25-7 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

AB Water-sol. analogs of Noyori's (1S,2S)-N-(p-tolylsulfonyl)-1,2-diphenylethylenediamine and Knochel's (1R,2R)-N-(p-tolylsulfonyl)-1,2-diaminocyclohexane, contg. an addnl. sulfonic acid group, have been synthesized. The ruthenium catalyzed redn. of arom. ketones using enantiomerically pure catalyst derived from the water sol. ligands and [RuCl<sub>2</sub>(p-cymene)]<sub>2</sub> has been examd. High enantioselectivity and moderate activity were obsd. in the 2-propanol/base system. The addn. of water is necessary to stabilize the catalyst.

ST asym transfer hydrogenation arom ketone; ruthenium amino sulfonamide asym transfer hydrogenation catalyst; arom alc asym prepn

IT Alcohols, preparation  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (aralkyl; prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)

IT Ketones, reactions  
 RL: RCT (Reactant)  
 (arom.; prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)

IT Hydrogenation catalysts  
 (transfer, stereoselective; ruthenium complexes with water-sol. amino sulfonamide ligands for arom. ketones)

IT 126420-28-8  
 RL: CAT (Catalyst use); USES (Uses)  
 (prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)

IT 357611-95-1P 357611-96-2P 357611-97-3P  
 RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)  
 (prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)

IT 93-08-3, 2-Acetylnaphthalene 98-86-2, Acetophenone, reactions  
 100-06-1, 4'-Methoxyacetophenone 121-57-3, 4-Aminobenzenesulfonic acid  
 349-76-8, 3'-(Trifluoromethyl)acetophenone 709-63-7,  
 4'-(Trifluoromethyl)acetophenone 20439-47-8, (1R,2R)-1,2-Cyclohexanediamine 33356-82-0, 1,2-Benzenedisulfonic anhydride  
 RL: RCT (Reactant)  
 (prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)

IT 27738-88-1P 27738-91-6P 29841-69-8P **357611-98-4P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)

IT 1445-91-6P 1517-69-7P 1517-70-0P 1572-97-0P 27544-18-9P  
 52193-85-8P 76155-79-8P 96789-80-9P 99493-93-3P 127852-24-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of water-sol. amino sulfonamide ligands and their application in enantioselective transfer hydrogenation)

RE.CNT 18

RE

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L10 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 2001:380438 CAPLUS

DN 135:24657

TI Selective cellular targeting: multifunctional delivery vehicles

IN Glazier, Arnold

PA Drug Innovation + Design, Inc., USA

SO PCT Int. Appl., 981 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K047-48

CC 63-5 (Pharmaceuticals)

Section cross-reference(s): 1, 2, 8, 15, 25, 28

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2001036003	A2	20010525	WO 2000-US31262	20001114
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,				
	HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,				
	LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				
	SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,				
	YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRAI US 1999-165485 P 19991115

US 2000-239478 P 20001011

US 2000-241939 P 20001020

AB The present invention relates to the compns., methods, and applications of

a novel approach to selective cellular targeting. The purpose of this invention is to enable the selective delivery and/or selective activation of effector mols. to target cells for diagnostic or therapeutic purposes. The present invention relates to multi-functional prodrugs or targeting vehicles wherein each functionality is capable of enhancing targeting selectivity, affinity, intracellular transport, activation or detoxification. The present invention also relates to ultralow dose, multiple target, multiple drug chemotherapy and targeted immunotherapy

for cancer treatment.

ST antitumor drug targeting delivery vehicle

IT Multidrug resistance proteins  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (MDR1, inhibitors; multifunctional delivery vehicles for selective  
 cellular targeting of drugs)

IT Prostate gland  
 (adenocarcinoma; multifunctional delivery vehicles for selective  
 cellular targeting of drugs)

IT Receptors  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL  
 (Biological study); OCCU (Occurrence); PROC (Process)  
 (cell-surface; multifunctional delivery vehicles for selective  
 cellular  
 targeting of drugs)

IT Cholecystokinin receptors  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL  
 (Biological study); OCCU (Occurrence); PROC (Process)  
 (cholecystokinin B; multifunctional delivery vehicles for selective  
 cellular targeting of drugs)

IT Proteins, specific or class  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL  
 (Biological study); OCCU (Occurrence); PROC (Process)  
 (complexes; multifunctional delivery vehicles for selective cellular  
 targeting of drugs)

IT Proteins, specific or class  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL  
 (Biological study); OCCU (Occurrence); PROC (Process)  
 (fibroblast-activating; multifunctional delivery vehicles for  
 selective  
 cellular targeting of drugs)

IT Receptors  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL  
 (Biological study); OCCU (Occurrence); PROC (Process)  
 (folate; multifunctional delivery vehicles for selective cellular  
 targeting of drugs)

IT Receptors  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL  
 (Biological study); OCCU (Occurrence); PROC (Process)  
 (for bombesin-releasing peptide; multifunctional delivery vehicles for  
 selective cellular targeting of drugs)

IT Receptors  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL  
 (Biological study); OCCU (Occurrence); PROC (Process)  
 (for gastrin-releasing peptide; multifunctional delivery vehicles for  
 selective cellular targeting of drugs)

IT Transport proteins  
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL  
 (Biological study); PROC (Process)  
 (for nucleosides, inhibitors; multifunctional delivery vehicles for  
 selective cellular targeting of drugs)

IT Biological transport  
 (intracellular; multifunctional delivery vehicles for selective  
 cellular targeting of drugs)

IT Antibodies  
 RL: BPR (Biological process); PEP (Physical, engineering or chemical  
 process); THU (Therapeutic use); BIOL (Biological study); PROC (Process);  
 USES (Uses)  
 (monoclonal; multifunctional delivery vehicles for selective cellular  
 targeting of drugs)

IT Antitumor agents  
 Cell division  
 Chelating agents  
 Cytotoxic agents  
 Drug targeting  
 Imaging agents  
 Immunization  
 Immunostimulants  
 (multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Enzymes, biological studies  
 RL: BAC (Biological activity or effector, except adverse); BOC  
 (Biological occurrence); BIOL (Biological study); OCCU (Occurrence)  
 (multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Laminin receptors  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL  
 (Biological study); OCCU (Occurrence); PROC (Process)  
 (multifunctional delivery vehicles for selective cellular targeting of drugs)

IT MSH receptors  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL  
 (Biological study); OCCU (Occurrence); PROC (Process)  
 (multifunctional delivery vehicles for selective cellular targeting of drugs)

IT P-glycoproteins  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL  
 (Biological study); OCCU (Occurrence); PROC (Process)  
 (multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Prostate-specific antigen  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL  
 (Biological study); OCCU (Occurrence); PROC (Process)  
 (multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Somatostatin receptors  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL  
 (Biological study); OCCU (Occurrence); PROC (Process)  
 (multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Biopolymers  
 RL: BOC (Biological occurrence); BPR (Biological process); THU  
 (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PROC  
 (Process); USES (Uses)  
 (multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Anthracyclines  
 Radionuclides  
 RL: PEP (Physical, engineering or chemical process); THU (Therapeutic  
 use); BIOL (Biological study); PROC (Process); USES (Uses)  
 (multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Antigens  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL  
 (Biological study); OCCU (Occurrence); PROC (Process)  
 (neoantigens; multifunctional delivery vehicles for selective cellular  
 targeting of drugs)

IT Receptors  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
 (nitrobenzylthioinosine-binding; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Transport proteins  
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)  
 (norepinephrine-transporting; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Benzodiazepine receptors  
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)  
 (peripheral; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Drug delivery systems  
 (prodrugs; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Ligands  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
 (targetable; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Drug delivery systems  
 (targeted; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Nucleosides, biological studies  
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)  
 (transport proteins; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Antigens  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
 (tumor-assocd.; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Vaccines  
 (tumor; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Biological transport  
 (uptake; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Antitumor agents  
 (vaccines; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Opioid receptors  
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)  
 (.sigma.-opioid; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT Integrins  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
 (.alpha.v.beta.3; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 9001-01-8, Kallikrein  
 RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)



(2, human glandular; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 9024-62-8, Orotidine 5'-phosphate decarboxylase 9029-03-2, Dihydroorotic acid dehydrogenase 9032-02-4

RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitors; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 342397-39-1P

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 341549-52-8P 341549-53-9P 341549-71-1P 341549-87-9P 341552-14-5P 341552-35-0P 341552-87-2P 341553-15-9P 341553-47-7P 341553-59-1P 341990-79-2P 341990-80-5P 341990-94-1P 341990-96-3P 341990-98-5P 341990-99-6P 341991-00-2P 342383-78-2P 342384-75-2P 342385-42-6P 342388-64-1P 342389-43-9P 342389-44-0P 342389-46-2P 342389-61-1P 342389-62-2P 342389-65-5P 342389-66-6P 342389-71-3P 342389-73-5P 342389-75-7P 342389-76-8P 342390-71-0P 342391-02-0P 342391-78-0P 342392-24-9P 342392-67-0P 342392-75-0P 342392-76-1P 342392-79-4P 342392-80-7P 342395-29-3P 342395-30-6P 342395-36-2P 342395-37-3P 342395-39-5P 342395-40-8P 342395-41-9P 342395-43-1P 342395-44-2P 342395-69-1P 342395-74-8P 342395-75-9P 342395-77-1P 342395-78-2P 342395-79-3P 342395-81-7P 342395-84-0P 342395-85-1P 342395-95-3P 342396-15-0P 342396-56-9P 342397-18-6P 342397-65-3P

RL: BAC (Biological activity or effector, except adverse); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 341549-26-6P 341549-27-7P 342389-60-0P 342392-57-8P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 9001-12-1, Collagenase 9001-77-8 9001-92-7, Proteinase 9002-07-7, Trypsin 9004-06-2, MMP 12 9004-08-4, Cathepsin 9025-26-7, Cathepsin d 9025-62-1, Steroid sulfatase 9030-23-3, Thymidine phosphorylase 9031-61-2, Thymidylate synthase 9039-53-6, Urokinase 9040-48-6, Gelatinase 9045-77-6, Fatty acid synthase 9047-22-7, Cathepsin b 9074-87-7, Glutamate carboxypeptidase II 60616-82-2, Cathepsin L 62229-50-9, Egf 79955-99-0, MMP-3 84419-03-4, Guanidinobenzoate 94716-09-3, Cathepsin k 115926-52-8, Phosphatidylinositol 3-kinase 141256-52-2, Matrilysin 141907-41-7, Matrix metalloproteinase 142008-29-5, Protein kinase a 142243-02-5, Map kinase 142805-58-1,

Map kinase kinase 145267-01-2, Stromelysin 3 146480-35-5, MMP 2 162032-86-2, Cathepsin O 175449-82-8, MMP-13 241475-96-7, Matrilysin 2 241475-96-7, Matrilysin 2

RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process) (multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 9001-90-5, Plasmin

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 50-07-7, Mitomycin c 57-22-7, Vincristine 58-85-5D, Biotin, masked derivs. 59-30-3D, Folic acid, masked derivs. 518-28-5D, Podophyllotoxin, derivs. 519-23-3D, Ellipticine, derivs. 865-21-4, Vinblastine 7689-03-4, Camptothecin 10159-53-2D, Phosphoramidate mustard, analogs 11116-31-7D, Bleomycin A2, derivs. 24280-93-1, Mycophenolic acid 33069-62-4D, Taxol, derivs. 52128-35-5,

Trimetrexate

65271-80-9D, Mitoxantrone, derivs. 77327-05-0, Didemnin B 112953-11-4 114899-77-3D, Ecteinascidin 743, derivs. 124689-65-2D, analogs 139987-54-5, BW 1843U89 175795-76-3 236743-94-5, Phthalascidin 265646-19-3, Indanocine

RL: PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT	1194-98-5P	1499-29-2P	6974-29-4P	90359-20-9P	138915-62-5P
	147281-71-8P	165172-57-6P	165454-06-8P	177575-34-7P	214532-01-1P
	216220-13-2P	240428-96-0P	341549-88-0P	341549-89-1P	341549-90-4P
	341549-91-5P	341549-92-6P	341549-93-7P	341549-94-8P	341549-95-9P
	341549-96-0P	341549-97-1P	341549-98-2P	341549-99-3P	341550-00-3P
	341550-01-4P	341550-02-5P	341550-03-6P	341550-04-7P	341550-05-8P
	341550-06-9P	341550-07-0P	341550-08-1P	341550-09-2P	341550-10-5P
	341550-11-6P	341550-12-7P	341550-13-8P	341550-14-9P	341550-15-0P
	341550-16-1P	341550-17-2P	341550-18-3P	341550-19-4P	341550-20-7P
	341550-21-8P	341550-22-9P	341550-23-0P	341550-24-1P	341550-25-2P
	341550-26-3P	341550-27-4P	341550-28-5P	341550-29-6P	341550-30-9P
	341550-31-0P	341550-32-1P	341550-33-2P	341550-34-3P	341550-35-4P
	341550-36-5P	341550-37-6P	341550-38-7P	341550-39-8P	341550-40-1P
	341550-41-2P	341550-42-3P	341550-43-4P	341550-44-5P	341550-45-6P
	341550-46-7P	341550-47-8P	341550-48-9P	341550-49-0P	341550-50-3P
	341550-51-4P	341550-52-5P	341550-53-6P	341550-54-7P	341550-55-8P
	341550-56-9P	341550-57-0P	341550-58-1P	341550-59-2P	341550-60-5P
	341550-61-6P	341550-62-7P	341550-63-8P	341550-64-9P	341550-65-0P
	341550-66-1P	341550-67-2P	341550-68-3P	341550-69-4P	341550-70-7P
	341550-71-8P	341550-72-9P	341550-73-0P	341550-74-1P	341550-75-2P
	341550-76-3P	341550-77-4P	341550-78-5P	341550-79-6P	341550-80-9P
	341550-81-0P	341550-82-1P	341550-83-2P	341550-84-3P	341550-85-4P
	341550-86-5P	341550-87-6P	341550-88-7P	341550-89-8P	341550-90-1P
	341550-91-2P	341550-92-3P	341550-93-4P	341550-94-5P	341550-95-6P
	341550-96-7P	341550-97-8P	341550-98-9P	341550-99-0P	341551-00-6P
	341551-01-7P	341551-02-8P	341551-03-9P	341551-04-0P	341551-05-1P
	341551-06-2P	341551-07-3P	341551-08-4P	341551-09-5P	341551-10-8P
	341551-11-9P	341551-12-0P	341551-14-2P	341551-16-4P	341551-17-5P
	341551-18-6P	341551-19-7P	341551-20-0P	341551-21-1P	341551-22-2P
	341551-23-3P	341551-24-4P	341551-25-5P	341551-26-6P	341551-27-7P
	341551-28-8P	341551-29-9P	341551-30-2P	341551-31-3P	341551-32-4P
	341551-33-5P	341551-34-6P	341551-35-7P	341551-36-8P	341551-37-9P
	341551-38-0P	341551-39-1P	341551-40-4P	341551-41-5P	341551-42-6P
	341551-43-7P	341551-44-8P	341551-45-9P	341551-46-0P	341551-47-1P
	341551-48-2P	341551-49-3P	341551-50-6P	341551-51-7P	341551-52-8P
	341551-53-9P	341551-54-0P	341551-55-1P	341551-56-2P	341551-57-3P
	341551-58-4P	341551-59-5P	341551-60-8P	341551-61-9P	341551-62-0P
	341551-63-1P	341551-64-2P	341551-65-3P	341551-67-5P	341551-68-6P
	341551-69-7P	341551-70-0P	341551-71-1P	341551-72-2P	

<b>341551-73-3P</b>	341551-74-4P	341551-75-5P	341551-76-6P	
341551-77-7P	341551-78-8P	341551-79-9P	341551-80-2P	341551-81-3P
341551-82-4P	341551-83-5P	341551-84-6P	341551-85-7P	341551-86-8P
341551-87-9P	341551-88-0P	341551-89-1P	341551-90-4P	341551-91-5P
341551-92-6P	341551-93-7P	341551-94-8P	341551-95-9P	341551-96-0P
341551-97-1P	341551-98-2P	341551-99-3P	341552-00-9P	341552-01-0P
341552-02-1P	341552-03-2P	341552-04-3P	341552-05-4P	341552-06-5P
341552-07-6P	341552-08-7P	341552-09-8P	341552-10-1P	341552-11-2P
341552-12-3P	341552-13-4P			

RL: PNU (Preparation, unclassified); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT	341552-15-6P	341552-16-7P	341552-17-8P	341552-18-9P	341552-19-0P
	341552-20-3P	341552-21-4P	341552-22-5P	341552-23-6P	341552-24-7P
	341552-25-8P	341552-26-9P	341552-27-0P	341552-28-1P	341552-29-2P
	341552-30-5P	341552-31-6P	341552-32-7P	341552-33-8P	341552-34-9P
	341552-36-1P	341552-37-2P	341552-38-3P	341552-39-4P	341552-40-7P
	341552-41-8P	341552-42-9P	341552-43-0P	341552-44-1P	341552-45-2P
	341552-46-3P	341552-47-4P	341552-48-5P	341552-49-6P	341552-50-9P
	341552-51-0P	341552-52-1P	341552-53-2P	341552-54-3P	341552-55-4P
	341552-56-5P	341552-57-6P	341552-58-7P	341552-59-8P	341552-60-1P
	341552-61-2P	341552-62-3P	341552-63-4P	341552-64-5P	341552-65-6P
	341552-66-7P	341552-67-8P	341552-68-9P	341552-69-0P	341552-70-3P
	341552-71-4P	341552-72-5P	341552-73-6P	341552-74-7P	341552-75-8P
	341552-76-9P	341552-77-0P	341552-78-1P	341552-79-2P	341552-80-5P
	341552-81-6P	341552-82-7P	341552-83-8P	341552-84-9P	341552-85-0P
	341552-86-1P	341552-88-3P	341552-89-4P	341552-90-7P	341552-91-8P
	341552-93-0P	341552-94-1P	341552-95-2P	341552-96-3P	341552-97-4P
	341552-98-5P	341552-99-6P	341553-00-2P	341553-01-3P	341553-02-4P
	341553-03-5P	341553-04-6P	341553-05-7P	341553-06-8P	341553-07-9P
	341553-08-0P	341553-09-1P	341553-10-4P	341553-11-5P	341553-12-6P
	341553-13-7P	341553-14-8P	341553-16-0P	341553-17-1P	341553-18-2P
	341553-19-3P	341553-20-6P	341553-21-7P	341553-22-8P	341553-23-9P
	341553-24-0P	341553-25-1P	341553-26-2P	341553-27-3P	341553-28-4P
	341553-29-5P	341553-30-8P	341553-31-9P	341553-32-0P	341553-33-1P
	341553-34-2P	341553-35-3P	341553-36-4P	341553-37-5P	341553-38-6P
	341553-39-7P	341553-40-0P	341553-41-1P	341553-42-2P	341553-43-3P
	341553-45-5P	341553-46-6P	341553-48-8P	341553-49-9P	341553-50-2P
	341553-51-3P	341553-52-4P	341553-53-5P	341553-54-6P	341553-55-7P
	341553-56-8P	341553-57-9P	341553-58-0P	341553-60-4P	341553-61-5P
	341553-62-6P	341553-63-7P	341553-64-8P	341553-65-9P	341553-67-1P
	341553-68-2P	341553-69-3P	341553-70-6P	341990-72-5P	341990-73-6P
	341990-74-7P	341990-75-8P	341990-76-9P	341990-77-0P	341990-78-1P
	341990-82-7P	341990-83-8P	341990-84-9P	341990-85-0P	341990-86-1P
	341990-87-2P	341990-88-3P	341990-89-4P	341990-90-7P	341990-91-8P
	341990-92-9P	341990-93-0P	341990-95-2P	341990-97-4P	341991-01-3P
	342393-40-2P	342395-76-0P	342395-83-9P	342395-94-2P	342396-85-4P
	342398-02-1P	342398-29-2P	342398-57-6P		

RL: PNU (Preparation, unclassified); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT	197245-25-3P	341549-54-0P	341549-55-1P	341549-56-2P	341549-57-3P
	341549-58-4P	341549-59-5P	341549-60-8P	341549-61-9P	341549-62-0P
	341549-63-1P	341549-74-4P	341549-76-6P	341549-78-8P	341549-79-9P
	341549-80-2P	341549-81-3P	341549-82-4P	341549-83-5P	341549-84-6P
	341549-85-7P	341549-86-8P			

RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 51-67-2 2495-35-4 3326-32-7 3588-30-5 110914-51-7 121031-01-4  
178623-11-5 341549-28-8 341549-30-2 341549-33-5 341549-39-1  
341549-73-3  
RL: RCT (Reactant)  
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 5621-44-3P 173039-08-2P 341549-29-9P 341549-31-3P 341549-32-4P  
341549-34-6P 341549-36-8P 341549-37-9P 341549-38-0P 341549-40-4P  
341549-69-7P 341549-70-0P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 341549-72-2P  
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 341549-41-5 341549-42-6 341549-43-7 341549-44-8 341549-45-9  
341549-46-0 341549-47-1 341549-48-2 341549-49-3 341549-50-6  
341549-51-7 341549-64-2 341549-65-3 341549-66-4 341549-67-5  
341549-68-6 341549-77-7 341990-71-4 342392-74-9 342393-39-9  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 9001-78-9, Alkaline phosphatase  
RL: BOC (Biological occurrence); BPR (Biological process); BIOL (Biological study); OCCU (Occurrence); PROC (Process)  
(placental type; multifunctional delivery vehicles for selective cellular targeting of drugs)

IT 38048-32-7  
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)  
(receptors; multifunctional delivery vehicles for selective cellular targeting of drugs)

L10 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 2001:194822 CAPLUS

DN 134:223461

TI Polythioethers having pendant hydroxymethyl groups with good hydrophilicity, dyeability, and solvent solubility, and their manufacture

IN Miura, Yoshiyuki; Kunitake, Masaru

PA Ube Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08G075-12

CC 37-3 (Plastics Manufacture and Processing)

Section cross-reference(s): 38, 42

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001072771	A2	20010321	JP 1999-252653	19990907
AB	[CH <sub>2</sub> CR <sub>1</sub> (CH <sub>2</sub> OH)CH <sub>2</sub> O(XO) <sub>k</sub> CH <sub>2</sub> CR <sub>2</sub> (CH <sub>2</sub> OH)CH <sub>2</sub> SYmS] <sub>n</sub> [k = 0-30; when k= 1, then				
X					

= (un)substituted alkylene, CONHZNHCO, CO; when k = 2-30, then X = CH<sub>2</sub>CH<sub>2</sub>;

Z = arylene(alkylene), alkylene; Y = arylene, alkylene, divalent heterocycle residue, etc.; m = 0, 1; R<sub>1</sub>, R<sub>2</sub> = H, C<sub>1</sub>-4 alkyl; n .gtoreq.2],

useful for coatings, adhesives, films, etc., are manufd. by polymn. of dioxetanes with dithiols in the presence of onium salts. Thus, 1,4-bis[(3-ethyl-3-oxetanylmethoxy)methyl]benzene was polymd. with bis(4-mercaptophenyl) disulfide in the presence of Ph<sub>4</sub>PBr at 150.degree. for 10 h to give polythioether with Mw 24,900 and Mn 8500.

ST hydroxymethylated polythioether manuf coating adhesive film; polymn dioxetane dithiol onium catalyst; phenylphosphonium catalyst polymn dioxetane dithiol; ring opening polymn dioxetane dithiol

IT Onium compounds  
 RL: CAT (Catalyst use); USES (Uses)  
 (catalysts; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Adhesives  
 Coating materials  
 Plastic films  
 (manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Polythioarylenes  
 Polythiophenylenes  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (polycarbonate-; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Polythioarylenes  
 Polythioethers  
 Polythiophenylenes  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (polyether-; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Polycarbonates, preparation  
 Polyethers, preparation  
 Polyurethanes, preparation  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (polythioarylene-; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Polyethers, preparation  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (polythioether-; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Polycarbonates, preparation  
 Polyethers, preparation  
 Polyurethanes, preparation  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (polythiophenylene-; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Polythioarylenes  
 Polythiophenylenes  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(polyurethane-; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT Polymerization catalysts  
(ring-opening; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT 2751-90-8, Tetraphenylphosphonium bromide  
RL: CAT (Catalyst use); USES (Uses)  
(catalyst; manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT 60763-95-3P  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation)  
(manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT 329363-98-6P 329363-99-7P 329364-00-3P 329364-01-4P 329364-02-5P  
329364-03-6P 329364-04-7P 329364-05-8P 329364-06-9P 329364-07-0P  
329364-08-1P 329364-09-2P 329364-10-5P **329364-11-6P**  
329364-12-7P 329364-13-8P  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

IT 101-68-8, 4,4'-Diphenylmethane diisocyanate 616-38-6, Dimethyl carbonate  
3047-32-3, 3-Ethyl-3-hydroxymethyloxetane  
RL: RCT (Reactant)  
(manuf. of hydroxymethylated polythioethers for coatings, adhesives, and films)

L10 ANSWER 7 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 2001:166870 CAPLUS

DN 134:306559

TI 7-(4,6-dimethoxypyrimidinyl)oxy- and -thiophthalides as novel herbicides: part 1. CGA 279 233: a new grass-killer for rice

AU Luthy, Christoph; Zondler, Helmut; Rapold, Thomas; Seifert, Gottfried; Urwyler, Bernhard; Heinis, Thomas; Steinrucken, Hans Christian; Allen, James

CS Syngenta Crop Protection AG, Basel, CH-4002, Switz.

SO Pest Manage. Sci. (2001), 57(3), 205-224

CODEN: PMSCFC; ISSN: 1526-498X

PB John Wiley & Sons Ltd.

DT Journal

LA English

CC 5-3 (Agrochemical Bioregulators)

Section cross-reference(s): 28

AB A series of novel types of 7-(4,6-dimethoxypyrimidin-2-yl)oxy - and -thio-3-methyl-1 (3H)-isobenzofuranones were discovered. From the thio-isobenzofuranyl series, CGA 279233, proposed common name pyriftalid, was chosen for further development as a grass herbicide for use in rice. Synthetic approaches to these new phthalic acid-derived compds. are given,

with emphasis on the synthesis of pyriftalid and its physicochem. behavior.

ST phthalide deriv prepn herbicide

IT Herbicides

(dimethoxypyrimidinyl)oxy- and -thiophthalides)

IT Structure-activity relationship

(herbicidal; of dimethoxypyrimidinyl)oxy- and -thiophthalides)

IT 9027-45-6, Acetolactate synthase  
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)  
(dimethoxypyrimidinyl)oxy- and -thiophthalide herbicides as inhibitors  
of)

IT 135186-68-4 135186-70-8 135186-82-2 135186-83-3 135187-16-5  
135187-19-8 135187-22-3 135187-38-1 135187-46-1 135187-56-3  
135217-15-1 148843-74-7 154502-20-2 180209-30-7 304855-54-7  
304855-55-8 304855-56-9 304855-57-0 304855-67-2 304855-69-4  
304855-71-8 304855-72-9 304855-73-0 304855-74-1 304855-75-2  
304855-76-3 335279-15-7 335279-16-8 335279-17-9 335279-18-0  
335279-20-4 335279-21-5 335279-22-6 335279-23-7 335279-24-8  
335279-25-9 335279-26-0 335279-27-1 335279-28-2 335279-29-3  
335279-30-6 335279-31-7 335279-32-8 335279-33-9 335279-34-0  
335279-35-1 335279-36-2 335279-37-3 335279-38-4 335279-39-5  
335279-41-9 335279-42-0 335279-43-1 335279-44-2 335279-45-3  
335279-46-4 335279-47-5 335279-48-6 335279-49-7 335279-50-0  
335279-51-1 335279-52-2 335279-53-3 335279-54-4 335279-55-5  
335279-56-6 335279-57-7 335279-58-8 335279-59-9 335279-60-2  
335279-61-3

RL: AGR (Agricultural use); BAC (Biological activity or effector, except  
adverse); BIOL (Biological study); USES (Uses)  
(herbicidal and acetolactate-synthetase-inhibiting activity of)

IT 3400-31-5P 13619-67-5P 13619-70-0P, 2-Acetyl-6-nitrobenzoic acid  
30991-02-7P 135217-37-7P, 7-Mercapto-3-methylphthalide 146516-73-6P  
148843-77-0P 335279-63-5P 335279-64-6P **335279-65-7P**  
335279-66-8P 335279-67-9P 335279-68-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(intermediate in prepn. of dimethoxypyrimidinylthiophthalide  
herbicides)

IT 135186-78-6P 136192-69-3P 304855-68-3P 304855-70-7P 304855-77-4P  
304855-78-5P 335279-40-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except  
adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP  
(Preparation); USES (Uses)  
(prepn. and herbicidal and acetolactate-synthetase-inhibiting activity  
of)

RE.CNT 66

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- (65) Westerfeld, W; J Biol Chem 1945, V161, P495
- (66) Yeola, S; Ind J Chem 1986, V25B, P804 CAPLUS

L10 ANSWER 8 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 2000:881172 CAPLUS  
DN 134:46794  
TI A compound containing a labile disulfide bond  
IN Wolff, Jon A.  
PA Mirus Corporation, USA  
SO PCT Int. Appl., 61 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
IC ICM C07H021-02



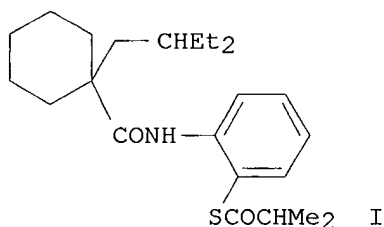
ICS C07H021-04; C07K001-00; A01N037-18; A01N043-04  
CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 1, 25

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000075162	A1	20001214	WO 2000-US15652	20000607
	W: JP				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1102784	A1	20010530	EP 2000-939635	20000607
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	US 1999-137859	P	19990607		
	WO 2000-US15652	W	20000607		
AB	A labile disulfide-contg. compd. under physiol. conditions, comprises:				
the	disulfide-contg. compd. having a labile disulfide bond that is either a				
	disulfide bond that is cleaved more rapidly than oxidized glutathione or				
a	disulfide bond constructed from thiols in which one of the constituent				
	thiols has a lower pKa than glutathione or a disulfide bond that is				
	activated by intramol. attack from a free thiol. Di-Me				
	5,5'-dithiobis(2-nitrobenzoate)propionimide-2HCl was prepd. and a				
	complex was formed between this compd., DNA and polylysine.				
ST	disulfide bond compd polymer delivery cell				
IT	Disulfide group				
	Drug delivery systems				
	Transformation, genetic				
	(compd. contg. a labile disulfide bond for polymer delivery to cells)				
IT	Nucleotides, biological studies				
	Peptides, biological studies				
	RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)				
	(compd. contg. a labile disulfide bond for polymer delivery to cells)				
IT	DNA				
	RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use);				
	BIOL (Biological study); PREP (Preparation); USES (Uses)				
	(complexes; compd. contg. a labile disulfide bond for polymer delivery				
	to cells)				
IT	Plasmid vectors				
	(pCI Luc; compd. contg. a labile disulfide bond for polymer delivery				
to	cells)				
IT	56-89-3D, L-Cystine, complex with DNA and disulfides, biological studies				
	RL: BPR (Biological process); RCT (Reactant); THU (Therapeutic use); BIOL				
	(Biological study); PROC (Process); USES (Uses)				
	(compd. contg. a labile disulfide bond for polymer delivery to cells)				
IT	56-89-3, L-Cystine, reactions 69-78-3, 5,5'-Dithiobis(2-nitrobenzoic				
	acid) 109-78-4, 3-Hydroxypropionitrile 627-18-9 1738-25-6,				
	3-Dimethylaminopropionitrile 6066-82-6, N-Hydroxysuccinimide				
	25104-18-1, Polylysine 38000-06-5, Polylysine 52328-05-9,				
	O-Methylisourea hydrogen sulfate 289888-14-8D, complex with				
	1,4-bis(3-aminopropyl)piperazine 289888-14-8D, complex with DNA and				
	cystine				
	RL: RCT (Reactant)				
	(compd. contg. a labile disulfide bond for polymer delivery to cells)				
IT	10389-65-8P	13551-09-2P	60129-38-6P	289888-07-9P	289888-08-0P
	289888-09-1P	289888-10-4P	289888-11-5P	289888-12-6P	289888-15-9P

**313056-27-8P**    313056-28-9P    313056-29-0P    313056-31-4P  
 313056-32-5P    313056-33-6P    313056-34-7DP, complex with DNA and pCI Luc  
 313056-34-7P    313056-35-8P    313056-36-9P    313056-37-0DP, complexes  
 with  
 DNA    313056-37-0P    313056-38-1P    313056-39-2P    313056-40-5P  
 313056-41-6DP, complex with DNA and pCI Luc  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (compd. contg. a labile disulfide bond for polymer delivery to cells)  
 IT    25104-18-1DP, Polylysine, complexes with DNA and disulfides  
 38000-06-5DP, Polylysine, complexes with DNA and disulfides  
 289888-09-1DP, complex with DNA and pCI Luc    289888-10-4DP, complex with  
 DNA and pCI Luc    289888-11-5DP, complex with DNA and pCI Luc  
 289888-12-6DP, complex with DNA and pCI Luc    313056-28-9DP, complex with  
 DNA and polylysine  
 RL: RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (compd. contg. a labile disulfide bond for polymer delivery to cells)  
 RE.CNT    5  
 RE  
 (1) Bergstrom; US 4983727 1991 CAPLUS  
 (2) Grinstaff; US 5639473 A 1997 CAPLUS  
 (3) Pastan; US 5747654 A 1998 CAPLUS  
 (4) Westling; US 5700921 A 1997 CAPLUS  
 (5) Zara; US 5157123 A 1992 CAPLUS  
  
 L10    ANSWER 9 OF 40    CAPLUS    COPYRIGHT 2002 ACS  
 AN    2000:607709    CAPLUS  
 DN    133:321682  
 TI    Bis[2-(Acylamino)phenyl] Disulfides, 2-(Acylamino)benzenethiols, and  
 S-[2-(Acylamino)phenyl] Alkanethioates as Novel Inhibitors of Cholesteryl  
 Ester Transfer Protein  
 AU    Shinkai, Hisashi; Maeda, Kimiya; Yamasaki, Takahiro; Okamoto, Hiroshi;  
 Uchida, Itsuo  
 CS    Central Pharmaceutical Research Institute, JT Inc., Osaka, 569-1125,  
 Japan  
 SO    Journal of Medicinal Chemistry (2000), 43(19), 3566-3572  
 CODEN: JMCMAR; ISSN: 0022-2623  
 PB    American Chemical Society  
 DT    Journal  
 LA    English  
 CC    25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 1  
 GI



AB    A series of bis[2-(acylamino)phenyl] disulfides, 2-(  
 (acylamino)benzenethiols, S-[2-(acylamino)phenyl] alkanethioates, and

related compds. were synthesized, and their inhibitory effect on cholesteryl ester transfer protein activity in human plasma was evaluated.

This study elucidated the structural requirements for inhibitory activity and detd. that the optimum compd. was I (JTT-705). I achieved 50% inhibition of CETP activity in human plasma at a concn. of 9 .mu.M and 95% inhibition of CETP activity in male Japanese white rabbits at an oral dose of 30 mg/kg. It increased the plasma HDL cholesterol level by 27 and 54%, resp., when given at oral doses of 30 or 100 mg/kg once a day for 3 days to male Japanese white rabbits.

ST acylaminophenyl disulfide prepn CETP inhibition; alkanethioate acylaminophenyl prepn CETP inhibition; acylaminobenzenethiol prepn CETP inhibition; cholesteryl ester transfer protein inhibitor arylamide  
IT Proteins, specific or class  
RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (cholesterol ester-exchanging; bis[2-(acylamino)phenyl] disulfides, 2-(acylamino)benzenethiols, and S-[2-(acylamino)phenyl] alkanethioates as inhibitors of)

IT 135-57-9P 4490-97-5P 117137-42-5P 187744-28-1P 211513-18-7P  
211513-21-2P 211513-23-4P 211513-96-1P 211513-97-2P 211513-99-4P  
303054-94-6P

RL: BAC (Biological activity or effector, except adverse); RCT (Reactant);

SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (bis[2-(acylamino)phenyl] disulfides, 2-(acylamino)benzenethiols, and S-[2-(acylamino)phenyl] alkanethioates as inhibitors of cholesteryl ester transfer protein)

IT 2527-60-8P 143790-61-8P 211513-26-7P 211513-27-8P 211513-28-9P  
211513-37-0P 211513-70-1P 211513-71-2P 211514-21-5P 292826-14-3P  
303054-95-7P **303054-96-8P** 303054-97-9P 303054-98-0P  
303054-99-1P 303055-00-7P 303055-03-0P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (bis[2-(acylamino)phenyl] disulfides, 2-(acylamino)benzenethiols, and S-[2-(acylamino)phenyl] alkanethioates as inhibitors of cholesteryl ester transfer protein)

IT 79-30-1, Isobutyryl chloride 95-55-6, 2-Aminophenol 98-89-5,  
Cyclohexanecarboxylic acid 103-80-0, Phenylacetyl chloride 119-80-2,  
2,2'-Dithiobis[benzoic acid] 1123-25-7, 1-Methylcyclohexanecarboxylic acid 1141-88-4, 2,2'-Dithiobis[aniline] 2890-61-1,  
1-Methylcyclohexanecarbonyl chloride 3814-34-4, 1-Bromo-2-ethylbutane

RL: RCT (Reactant) (bis[2-(acylamino)phenyl] disulfides, 2-(acylamino)benzenethiols, and S-[2-(acylamino)phenyl] alkanethioates as inhibitors of cholesteryl ester transfer protein)

IT 303055-05-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (bis[2-(acylamino)phenyl] disulfides, 2-(acylamino)benzenethiols, and S-[2-(acylamino)phenyl] alkanethioates as inhibitors of cholesteryl ester transfer protein)

RE.CNT 15

RE

(1) Bhatnagar, D; Atherosclerosis 1993, V98, P25 MEDLINE

(2) Bruce, C; Annu Rev Nutr 1998, V18, P297 CAPLUS

(3) Connolly, D; Biochem Biophys Res Commun 1996, V223, P42 CAPLUS

- (4) Fielding, C; J Clin Invest 1996, V97, P2687 CAPLUS
- (5) Fielding, C; J Lipid Res 1995, V36, P211 CAPLUS
- (6) Foger, B; J Mol Med 1995, V73, P369 MEDLINE
- (7) Hayek, T; J Clin Invest 1995, V96, P2071 CAPLUS
- (8) Kothari, H; Atherosclerosis 1997, V128, P59 CAPLUS
- (9) Lagrost, L; Biochem Biophys Acta 1994, V1215, P209 CAPLUS
- (10) Marotti, K; Nature 1993, V364, P73 CAPLUS
- (11) Morton, R; J Biol Chem 1983, V258, P11751 CAPLUS
- (12) Okamoto, H; Nature 2000, V406, P203 CAPLUS
- (13) Quinet, E; J Clin Invest 1991, V87, P1559 CAPLUS
- (14) Tall, A; J Lipid Res 1993, V34, P1255 CAPLUS
- (15) Zhong, S; J Clin Invest 1996, V97, P2917 CAPLUS

L10 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 2000:535112 CAPLUS

DN 133:150547

TI Preparation of spiro[1,2-dioxetane-3,2'-adamantane] derivatives as chemiluminescent reagents for determination of thiols and acetylcholinesterase

IN Grassi, Jacques; Sabelle, Stephane; Renard, Pierre-Yves

PA Commissariat a l'Energie Atomique, Fr.

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DT Patent

LA French

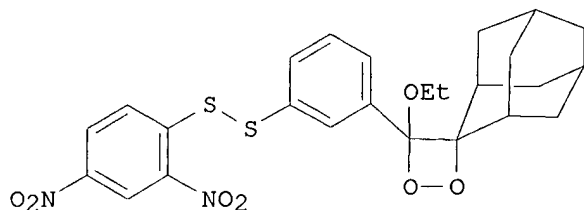
IC ICM C07D

CC 28-4 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 9

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000044719	A2	20000803	WO 2000-FR183	20000127
	W: CA, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	FR 2789075	A1	20000804	FR 1999-949	19990128
	FR 2789075	B1	20010302		
PRAI	FR 1999-949	A	19990128		
OS	CASREACT 133:150547; MARPAT 133:150547				
GI					



II

AB R3SZZ1CRR1OOCRR4R5 [I; RR = bond; R1 = H, alkyl, alkoxy, aryl(oxy), etc.; R3 = substituted Ph or -polyarom. group (sic); R4,R5 = alkyl or aryl;

R4R5

= atoms to complete a (poly)cycloalkyl group or -(polycyclic) aryl group;

Z = O or S; Z1 = (un)substituted arylene] were prepd. Thus, 3-IC6H4CO2Et was thiolated by Bu3SnCMe3 (prepn. each given) and the product condensed with 2-adamantanone to give 3-(Me3CS)C6H4C(:X)OEt (X = 2-adamantylidene) which was S-thiolated by 2,4-(O2N)C6H3SCl to give, after ozonation, title compd. II. Anal. use of I was demonstrated.

ST spirodioxetaneadamantane prepn chemiluminescent reagent; detn thiol acetylcholinesterase spirodioxetaneadamantane prepn

IT Chemiluminescence spectroscopy  
Chemiluminescent substances  
(prepn. of spiro[1,2-dioxetane-3,2'-adamantane] derivs. as chemiluminescent reagents for detn. of thiols and acetylcholinesterase)

IT Thiols (organic), analysis  
RL: ANT (Analyte); ANST (Analytical study)  
(prepn. of spiro[1,2-dioxetane-3,2'-adamantane] derivs. as chemiluminescent reagents for detn. of thiols and acetylcholinesterase)

IT 625-00-3, Thiocoline 9000-81-1, Acetylcholinesterase  
RL: ANT (Analyte); ANST (Analytical study)  
(prepn. of spiro[1,2-dioxetane-3,2'-adamantane] derivs. as chemiluminescent reagents for detn. of thiols and acetylcholinesterase)

IT **287171-81-7P** 287171-83-9P  
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)  
(prepn. of spiro[1,2-dioxetane-3,2'-adamantane] derivs. as chemiluminescent reagents for detn. of thiols and acetylcholinesterase)

IT 75-66-1, tert-Butylthiol 528-76-7, 2,4-Dinitrobenzenesulphenyl chloride 700-58-3, 2-Adamantanone 1461-22-9, Tributyltin chloride 18162-48-6, tert-Butyldimethylsilyl chloride 19438-10-9, Methyl 3-hydroxybenzoate 24398-88-7, Ethyl 3-bromobenzoate  
RL: RCT (Reactant)  
(prepn. of spiro[1,2-dioxetane-3,2'-adamantane] derivs. as chemiluminescent reagents for detn. of thiols and acetylcholinesterase)

IT 23728-82-7P 58313-23-8P, Ethyl 3-iodobenzoate 111807-81-9P 120687-94-7P 121445-45-2P 287171-78-2P 287171-79-3P 287171-80-6P 287171-82-8P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of spiro[1,2-dioxetane-3,2'-adamantane] derivs. as chemiluminescent reagents for detn. of thiols and acetylcholinesterase)

=> d his

(FILE 'HOME' ENTERED AT 10:39:29 ON 11 JAN 2002)

FILE 'REGISTRY' ENTERED AT 10:39:37 ON 11 JAN 2002

L1 STRUCTURE UPLOADED

L2 50 S L1

L3 839 S (LINKER)

FILE 'REGISTRY' ENTERED AT 10:43:24 ON 11 JAN 2002

L4 0 S L2 AND LINKER

L5 0 S L2 AND LINK

FILE 'REGISTRY' ENTERED AT 10:45:18 ON 11 JAN 2002  
SET TERMSET E#  
DEL SEL Y  
SEL L2 47 RN  
L6 1 S E1/RN  
SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 10:45:24 ON 11 JAN 2002  
L7 1 S L6

FILE 'REGISTRY' ENTERED AT 10:46:06 ON 11 JAN 2002  
SET TERMSET E#  
DEL SEL Y  
SEL L2 31 RN  
L8 1 S E1/RN  
SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 10:46:12 ON 11 JAN 2002  
L9 1 S L8

FILE 'CAPLUS' ENTERED AT 10:46:42 ON 11 JAN 2002  
L10 40 S L2

=> d l10 l1-40 all  
'L1-999' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB  
ALL ----- BIB, AB, IND, RE  
APPS ----- AI, PRAI  
BIB ----- AN, plus Bibliographic Data and PI table (default)  
CAN ----- List of CA abstract numbers without answer numbers  
CBIB ----- AN, plus Compressed Bibliographic Data  
DALL ----- ALL, delimited (end of each field identified)  
DMAX ----- MAX, delimited for post-processing  
FAM ----- AN, PI and PRAI in table, plus Patent Family data  
FBIB ----- AN, BIB, plus Patent FAM  
IND ----- Indexing data  
IPC ----- International Patent Classifications  
MAX ----- ALL, plus Patent FAM, RE  
PATS ----- PI, SO  
SAM ----- CC, SX, TI, ST, IT  
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;  
SCAN must be entered on the same line as the DISPLAY,  
e.g., D SCAN or DISPLAY SCAN)  
STD ----- BIB, IPC, and NCL  
  
IABS ----- ABS, indented with text labels  
IALL ----- ALL, indented with text labels  
IBIB ----- BIB, indented with text labels  
IMAX ----- MAX, indented with text labels  
ISTD ----- STD, indented with text labels  
  
OBIB ----- AN, plus Bibliographic Data (original)  
OIBIB ----- OBIB, indented with text labels  
  
SBIB ----- BIB, no citations

SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms

HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT) containing hit terms

HITRN ----- HIT RN and its text modification

HITSTR ----- HIT RN, its text modification, its CA index name, and its structure diagram

HITSEQ ----- HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields

FHITSTR ----- First HIT RN, its text modification, its CA index name, and its structure diagram

FHITSEQ ----- First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields

KWIC ----- Hit term plus 20 words on either side

OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.

ENTER DISPLAY FORMAT (BIB):esc  
'ESC' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB

ALL ----- BIB, AB, IND, RE

APPS ----- AI, PRAI

BIB ----- AN, plus Bibliographic Data and PI table (default)

CAN ----- List of CA abstract numbers without answer numbers

CBIB ----- AN, plus Compressed Bibliographic Data

DALL ----- ALL, delimited (end of each field identified)

DMAX ----- MAX, delimited for post-processing

FAM ----- AN, PI and PRAI in table, plus Patent Family data

FBIB ----- AN, BIB, plus Patent FAM

IND ----- Indexing data

IPC ----- International Patent Classifications

MAX ----- ALL, plus Patent FAM, RE

PATS ----- PI, SO

SAM ----- CC, SX, TI, ST, IT

SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers; SCAN must be entered on the same line as the DISPLAY, e.g., D SCAN or DISPLAY SCAN)

STD ----- BIB, IPC, and NCL

IABS ----- ABS, indented with text labels

IALL ----- ALL, indented with text labels

IBIB ----- BIB, indented with text labels

IMAX ----- MAX, indented with text labels

ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)  
 OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations  
 SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms  
 HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)  
                   containing hit terms  
 HITRN ----- HIT RN and its text modification  
 HITSTR ----- HIT RN, its text modification, its CA index name, and  
                   its structure diagram  
 HITSEQ ----- HIT RN, its text modification, its CA index name, its  
                   structure diagram, plus NTE and SEQ fields  
 FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
                   its structure diagram  
 FHITSEQ ----- First HIT RN, its text modification, its CA index name, its  
                   structure diagram, plus NTE and SEQ fields  
 KWIC ----- Hit term plus 20 words on either side  
 OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.

ENTER DISPLAY FORMAT (BIB):

ENTER DISPLAY FORMAT (BIB):bib

L10 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 2001:873232 CAPLUS

DN 136:29244

TI Antiferroelectric liquid crystal composition and liquid crystal element using it

IN Aihara, Yoshihiko; Mogamiya, Hiroyuki; Yamakawa, Noriko

PA Showa Shell Sekiyu K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2001335558	A2	20011204	JP 2000-156521	20000526

=> d l1 11-40 bib

L1 HAS NO ANSWERS

'BIB ' IS NOT A VALID STRUCTURE FORMAT KEYWORD

Structure Formats

SIA ----- Structure Image, Attributes, and map table if it contains data. (Default)

SIM ----- Structure Image.



SAT ----- Structure ATtributes and map table if it contains data.  
 SCT ----- Structure Connection Table and map table if it contains data.  
 SDA ----- All Structure DATA (image, attributes, connection table and map table if it contains data).  
 NOS ----- NO Structure data.  
 ENTER STRUCTURE FORMAT (SIM), NOS:  
 ENTER STRUCTURE FORMAT (SIM), NOS:exit  
 'EXIT' IS NOT A VALID STRUCTURE FORMAT KEYWORD  
 Structure Formats  
 SIA ----- Structure Image, Attributes, and map table if it contains data. (Default)  
 SIM ----- Structure IMAGE.  
 SAT ----- Structure ATtributes and map table if it contains data.  
 SCT ----- Structure Connection Table and map table if it contains data.  
 SDA ----- All Structure DATA (image, attributes, connection table and map table if it contains data).  
 NOS ----- NO Structure data.  
 ENTER STRUCTURE FORMAT (SIM), NOS:nos  
 L1 STR

=> d 110 11-40 bib

L10 ANSWER 11 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 AN 2000:318180 CAPLUS  
 DN 133:73982  
 TI Ring transformation of 3-(2-oxopropyl)-2(3H)-benzothiazolone in reaction with primary amine  
 AU Petrova, Katia; Kalcheva, Veneta; Antonova, Antonina  
 CS "St. Kl. Ohridski" Department of Chemistry I James Bourchier, Sofia University, Sofia, 1164, Bulg.  
 SO Phosphorus, Sulfur Silicon Relat. Elem. (2000), 158, 67-80  
 CODEN: PSSLEC; ISSN: 1042-6507  
 PB Gordon & Breach Science Publishers  
 DT Journal  
 LA English  
 OS CASREACT 133:73982  
 RE.CNT 26  
 RE  
 (1) Abe, T; 1985 CAPLUS  
 (2) Abe, T; Ensho 1983, V3, P507 CAPLUS  
 (3) Calis, U; Arzneim-Forsch/Drug Res 1992, V42, P592 CAPLUS  
 (5) De Kimpe, N; Recl Trav Chem Pays-Bas 1994, V113, P283 CAPLUS  
 (8) Hetzheim, A; Chem 1970, V10, P385 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 12 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 AN 2000:198537 CAPLUS  
 DN 132:333984  
 TI Synthesis of Heterocyclic Thiosulfonates  
 AU Prasad, J. V. N. Vara  
 CS Department of Chemistry, Parke-Davis Pharmaceutical Research Division of Warner-Lambert Company, Ann Arbor, MI, 48106, USA  
 SO Org. Lett. (2000), 2(8), 1069-1072  
 CODEN: ORLEF7; ISSN: 1523-7060  
 PB American Chemical Society

DT Journal  
LA English  
RE.CNT 14  
RE

- (1) Clark, R; Synthesis 1991, P871 CAPLUS  
(2) Devlin, T; Synth Commun 1995, V25, P711 CAPLUS  
(3) Gagliardi, S; J Med Chem 1998, V41, P1568 CAPLUS  
(6) Hagen, S; J Med Chem 1997, V40, P3707 CAPLUS  
(7) Kher, S; J Org Chem 1995, V60, P5838 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 13 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 2000:191081 CAPLUS

DN 132:236987

TI Preparation of dihydropyrones with tethered heterocycles as HIV protease inhibitors

IN Boyer, Frederick Earl, Jr.; Domagala, John Michael; Ellsworth, Edmund Lee;

Gajda, Christopher Andrew; Hagen, Susan Elizabeth; Lovdahl, Michael James;

Lunney, Elizabeth Ann; Markoski, Larry James; Josyula, Vara Prasad Venkata

Nagendra; Tait, Bradley Dean

PA Warner-Lambert Co., USA; et al.

SO PCT Int. Appl., 282 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000015634	A2	20000323	WO 1999-US18986	19990818
	WO 2000015634	A3	20001116		
	W:		AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	AU 9957802	A1	20000403	AU 1999-57802	19990818
	BR 9913598	A	20010529	BR 1999-13598	19990818
	EP 1112269	A2	20010704	EP 1999-969092	19990818
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO		
PRAI	US 1998-99946	P	19980911		
	WO 1999-US18986	W	19990818		
OS	MARPAT 132:236987				

L10 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 2000:104823 CAPLUS

DN 132:273836

TI 5,6-Dihydropyran-2-ones Possessing Various Sulfonyl Functionalities: Potent Nonpeptidic Inhibitors of HIV Protease

AU Boyer, Frederick E.; Prasad, J. V. N. Vara; Domagala, John M.; Ellsworth, Edmund L.; Gajda, Christopher; Hagen, Susan E.; Markoski, Larry J.; Tait, Bradley D.; Lunney, Elizabeth A.; Palovsky, Alexander; Ferguson, Donna; Graham, Neil; Holler, Tod; Hupe, Donald; Nouhan, Carolyn; Tummino, Peter

J.; Urumov, A.; Zeikus, Eric; Zeikus, Greg; Gracheck, Stephen J.;  
Sanders,  
James M.; VanderRoest, Steven; Brodfuehrer, Joanne; Iyer, Krishna; Sinz,  
Michael; Gulnik, Sergei V.; Erickson, John W.  
CS Departments of Chemistry Biochemistry Infectious Diseases and PDM,  
Parke-Davis Pharmaceutical Research Division of Warner-Lambert Company,  
Ann Arbor, MI, 48105, USA  
SO J. Med. Chem. (2000), 43(5), 843-858  
CODEN: JMCMAR; ISSN: 0022-2623  
PB American Chemical Society  
DT Journal  
LA English  
RE.CNT 31  
RE

- (1) Barry, M; Clin Pharmacokinet 1997, V32, P194 CAPLUS  
(3) Carpenter, M; J Org Chem 1951, P586 CAPLUS  
(4) Chiba, M; Drug Metab Dispos 1996, V24, P307 CAPLUS  
(5) Deeks, S; J Am Med Assoc 1997, V277, P145 CAPLUS  
(6) Erickson, J; Nature Struct Biol 1995, V2, P523 CAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 15 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 2000:71430 CAPLUS  
DN 132:194265

TI Nonpeptidic HIV protease inhibitors possessing excellent antiviral  
activities and therapeutic indices. PD 178390: a lead HIV protease  
inhibitor

AU Prasad, J. V. N. Vara; Boyer, Frederick E.; Domagala, John M.; Ellsworth,  
Edmund L.; Gajda, Christopher; Hamilton, Harriet W.; Hagen, Susan E.;  
Markoski, Larry J.; Steinbaugh, Bruce A.; Tait, Bradley D.; Humblet,  
Christine; Lunney, Elizabeth A.; Pavlovsky, Alexander; Rubin, John R.;  
Ferguson, Donna; Graham, Neil; Holler, Tod; Hupe, Donald; Nouhan,  
Carolyn;

Tummino, Peter J.; Urumov, A.; Zeikus, Eric; Zeikus, Greg; Gracheck,  
Stephen J.; Saunders, James M.; VanderRoest, Steven; Brodfuehrer, Joanne;  
Iyer, K.; Sinz, M.; Gulnik, Sergei V.; Erickson, John W.

CS Department of Chemistry, Parke-Davis Pharmaceutical Research, Division of  
Warner-Lambert Company, Ann Arbor, MI, 48105, USA

SO Bioorg. Med. Chem. (1999), 7(12), 2775-2800  
CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier Science Ltd.

DT Journal

LA English

RE.CNT 40

RE

- (1) Buckheit, R; Antiviral Res 1993, V21, P247 CAPLUS  
(2) Chiba, M; Drug Metab Dispos 1996, V24, P307 CAPLUS  
(4) Deeks, S; JAMA 1997, V277, P145 CAPLUS  
(6) Erickson, J; Nature Structural Biology 1995, V2, P523 CAPLUS  
(7) Eyermann, C; Advances in Amino Acid Mimetics and Peptidomimetics 1997, V1,  
P1 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 16 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1999:811208 CAPLUS  
DN 132:49889

TI Preparation of benzamide thiolesters, disulfides, benzisothiazolones, and  
related compounds as inactivators of zinc finger containing retroviruses.

IN Turpin, Jim A.; Song, Yongsheng; Inman, John K.; Huang, Mingjun;  
 Wallqvist, Anders; Maynard, Andrew; Covell, David G.; Rice, William G.;  
 Appella, Ettore  
 PA United States of America, Department of Health and Human Services, USA  
 SO PCT Int. Appl., 82 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9965871	A2	19991223	WO 1999-US13856	19990618
	WO 9965871	A3	20001123		
	W:		AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	AU 9946972	A1	20000105	AU 1999-46972	19990618
	BR 9911385	A	20010313	BR 1999-11385	19990618
	EP 1087941	A2	20010404	EP 1999-930428	19990618
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI		
PRAI	US 1998-89842	P	19980619		
	WO 1999-US13856	W	19990618		
OS	MARPAT 132:49889				

L10 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 AN 1999:525807 CAPLUS  
 DN 131:266146  
 TI Molecular assembly and micellization of molybdenum(V,IV) thiolate and selenolate complexes with long hydrocarbon chains  
 AU Okamura, Taka-Aki; Taniuchi, Kaku; Ueyama, Norikazu; Nakamura, Akira  
 CS Department of Macromolecular Science, Graduate School of Science, Osaka University, Osaka, 560-0043, Japan  
 SO Polym. J. (Tokyo) (1999), 31(8), 651-657  
 CODEN: POLJB8; ISSN: 0032-3896  
 PB Society of Polymer Science, Japan  
 DT Journal  
 LA English  
 RE.CNT 28  
 RE  
 (1) Baena, M; J Am Chem Soc 1994, V116, P1899 CAPLUS  
 (2) Baxter, D; J Am Chem Soc 1994, V116, P4551 CAPLUS  
 (3) Boyd, I; Aust J Chem 1978, V31, P279 CAPLUS  
 (6) Dance, I; Aust J Chem 1978, V31, P519 CAPLUS  
 (7) Ghadiri, M; J Am Chem Soc 1992, V114, P4000 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 18 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 AN 1999:506347 CAPLUS  
 DN 132:137146  
 TI Syntheses of 1-amino-2-(4-chloro-2-mercaptobenzenesulfonyl)guanidine derivatives with potential pharmacological activity

AU Pomarnacka, Elzbieta; Kornicka, Anita  
CS Department of Chemical Technology of Drugs, Medical University of Gdansk,  
Gdansk, 80-416, Pol.  
SO Acta Pol. Pharm. (1999), 56(2), 143-153  
CODEN: APPHAX; ISSN: 0001-6837  
PB Polish Pharmaceutical Society  
DT Journal  
LA English  
RE.CNT 15  
RE  
(1) Artico, M; Il Farmaco 1996, V51, P305 CAPLUS  
(2) Baumgarth, M; J Med Chem 1997, V40, P2017 CAPLUS  
(4) Brzozowski, Z; Acta Polon Pharm 1984, V41, P133 CAPLUS  
(5) Brzozowski, Z; Acta Polon Pharm 1985, V42, P313 CAPLUS  
(6) Brzozowski, Z; Acta Polon Pharm - Drug Research 1998, V55, P49 CAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 19 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1999:506346 CAPLUS  
DN 132:137328  
TI Syntheses of some  
2-hydroxy-1-[(4-chloro-2-mercaptophenyl)sulfonyl]imidazo  
le derivatives with potential anticancer activity  
AU Brzozowski, Zdzislaw; Kornicka, Anita  
CS Department of Chemical Drug Technology, Medical University of Gdansk,  
Gdansk, 80-416, Pol.  
SO Acta Pol. Pharm. (1999), 56(2), 135-142  
CODEN: APPHAX; ISSN: 0001-6837  
PB Polish Pharmaceutical Society  
DT Journal  
LA English  
RE.CNT 14  
RE  
(4) Brzozowski, Z; Acta Polon Pharm - Drug Research 1995, V52, P91 CAPLUS  
(5) Brzozowski, Z; Acta Polon Pharm - Drug Research 1996, V53, P269 CAPLUS  
(6) Brzozowski, Z; Acta Polon Pharm - Drug Research 1997, V54, P293 CAPLUS  
(7) Brzozowski, Z; Acta Polon Pharm - Drug Research 1998, V55, P233 CAPLUS  
(8) Brzozowski, Z; Acta Polon Pharm - Drug Research 1998, V55, P375 CAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1999:421985 CAPLUS  
DN 131:214038  
TI Sodium selenoborate for reduction of arylsulfonyl chlorides, sodium  
arylsulfonates, and aryl arylsulfonates  
AU Zhuang, Meihua; Yu, Biyu; Shao, Jianguo  
CS Department of Chem. and Chem. Engin., Yangzhou Univ., Yangzhou, 225002,  
Peop. Rep. China  
SO Yangzhou Daxue Xuebao, Ziran Kexueban (1999), 2(2), 19-21  
CODEN: YDXKFT; ISSN: 1007-824X  
PB Yangzhou Daxue Xuebao Bianjibu  
DT Journal  
LA Chinese

L10 ANSWER 21 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1999:354463 CAPLUS  
DN 131:5528  
TI A solid-phase technology for the preparation of combinatorial libraries

through amide-bond anchoring  
 IN Johnson, Tony; Quibell, Martin; Howe, Joanne  
 PA Peptide Therapeutics Limited, UK  
 SO PCT Int. Appl., 46 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9926902	A1	19990603	WO 1998-GB3523	19981126
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,			
TM					
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	AU 9913420	A1	19990615	AU 1999-13420	19981126
	AU 734992	B2	20010628		
	EP 1034154	A1	20000913	EP 1998-956988	19981126
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,			
FI	JP 2001524457	T2	20011204	JP 2000-522063	19981126
PRAI	GB 1997-24853	A	19971126		
	GB 1998-8744	A	19980425		
	WO 1998-GB3523	W	19981126		

RE.CNT 4

RE

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- (2) Holmes, C; WO 9600378 A 1996 CAPLUS
- (3) Johnson, T; WO 9817628 A 1998 CAPLUS
- (4) Lebl, M; WO 9218144 A 1992 CAPLUS

L10 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1998:814205 CAPLUS

DN 130:217595

TI Synthesis and Biological Properties of Novel Pyridinioalkanoyl

Thiolesters

(PATE) as Anti-HIV-1 Agents That Target the Viral Nucleocapsid Protein Zinc Fingers

AU Turpin, Jim A.; Song, Yongsheng; Inman, John K.; Huang, Mingjun; Wallqvist, Anders; Maynard, Andrew; Covell, David G.; Rice, William G.; Appella, Ettore

CS Laboratory of Antiviral Drug Mechanisms and Laboratory of Experimental and

Computational Biology National Cancer Institute-Frederick Cancer Research and Development Center, SAIC Frederick, Frederick, MD, 21702-1201, USA

SO J. Med. Chem. (1999), 42(1), 67-86

CODEN: JMCMAR; ISSN: 0022-2623

PB American Chemical Society

DT Journal

LA English

RE.CNT 51

RE

(1) Aldovini, A; J Virol 1990, V64, P1920 CAPLUS  
 (2) Bader, J; Proc Natl Acad Sci U S A 1991, V88, P6740 CAPLUS  
 (3) Baggaley, K; J Med Chem 1985, V28, P1661 CAPLUS  
 (4) Berg, J; Science 1986, V232, P485 CAPLUS  
 (5) Bernstein, F; J Mol Biol 1977, V112, P535 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 AN 1998:737260 CAPLUS  
 DN 130:95792  
 TI 2,2'-Dithiobisbenzamides derived from .alpha.-, .beta.- and .gamma.-amino acids possessing anti-HIV activities: synthesis and structure-activity relationship  
 AU Prasad, J. V. N. Vara; Loo, Joseph A.; Boyer, Frederick E.; Stier, Michael  
 A.; Gogliotti, Rocco D.; Turner, William J.; Harvey, Patricia J.; Kramer, Melissa R.; Mack, David P.; Scholten, Jefferey D.; Gracheck, Stephen J.; Domagala, John M.  
 CS Department of Chemistry, Parke-Davis Pharmaceutical Research, Division of Warner-Lambert Company, Ann Arbor, MI, 48105, USA  
 SO Bioorg. Med. Chem. (1998), 6(10), 1707-1730  
 CODEN: BMECEP; ISSN: 0968-0896  
 PB Elsevier Science Ltd.  
 DT Journal  
 LA English  
 RE.CNT 38  
 RE

(1) Aldovini, A; J Virol 1990, V64, P1920 CAPLUS  
 (2) Buckheit, R; Antiviral Res 1993, V21, P247 CAPLUS  
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 (5) Darlix, J; J Mol Biol 1995, V254, P523 CAPLUS  
 (6) de Guzman, R; Science 1998, V279, P384 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 24 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 AN 1998:672509 CAPLUS  
 DN 129:275693  
 TI Preparation of aromatic and heterocyclic nitrate derivatives as vasodilators  
 IN Haj-Yehia, Abdullah  
 PA Yisum Research Development Company of the Hebrew, Israel  
 SO PCT Int. Appl., 56 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9842661	A1	19981001	WO 1998-IL144	19980326
	W:		AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG		
	AU 9865160	A1	19981020	AU 1998-65160	19980326

EP 984928 A1 20000315 EP 1998-910963 19980326  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, FI  
 JP 2001520670 T2 20011030 JP 1998-545375 19980326  
 PRAI IL 1997-120531 A 19970326  
 WO 1998-IL144 W 19980326

L10 ANSWER 25 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 AN 1998:561795 CAPLUS  
 DN 129:244780  
 TI Photochemical Reactions between C60 and Aromatic Thiols. Protonation of  
 C60 via Photoinduced Electron Transfer  
 AU Alam, Maksudul M.; Sato, Masahiro; Watanabe, Akira; Akasaka, Takeshi;  
 Ito, Osamu  
 CS Institute for Chemical Reaction Science, Tohoku University, Katahira  
 Sendai, 980-8577, Japan  
 SO J. Phys. Chem. A (1998), 102(38), 7447-7451  
 CODEN: JPCAFH; ISSN: 1089-5639  
 PB American Chemical Society  
 DT Journal  
 LA English

L10 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 AN 1998:424091 CAPLUS  
 DN 129:95502  
 TI Preparation of fungicidal quinazolinones  
 IN Bellina, Russell Frank; Bereznak, James Francis; Christensen, Joel  
 Robert;  
 Chang, Zen-Yu; Fawzi, Maged Mohamed; Marshall, Eric Allen; Moberg,  
 William  
 Karl; Rorer, Morris Padgett; Sternberg, Charlene Gross; Walker, Michael  
 Paul; Zimmerman, William Thomas  
 PA E.I. Du Pont de Nemours and Co., USA  
 SO PCT Int. Appl., 78 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9826664	A1	19980625	WO 1997-US22779	19971215
	W:				
	AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU,				
	ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK,				
	MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA,				
	US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,				
	FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,				
	GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9853803	A1	19980715	AU 1998-53803	19971215
	EP 946095	A1	19991006	EP 1997-950927	19971215
	R: CH, DE, FR, GB, IT, LI				
PRAI	US 1996-33657	P	19961217		
	US 1997-41964	P	19970403		
	WO 1997-US22779	W	19971215		
OS	MARPAT 129:95502				

L10 ANSWER 27 OF 40 CAPLUS COPYRIGHT 2002 ACS



AN 1998:323234 CAPLUS  
 DN 129:16055  
 TI Preparation of 3-arylthio-6-arylethyl-4-hydroxy-5,6-dihdropyran-2-ones  
 as antiretrovirals.  
 IN Boyer, Frederick Earl, Jr.; Domagala, John Michael; Ellsworth, Edmund  
 Lee;  
 Gajda, Christopher Andrew; Hagen, Susan Elizabeth; Hamilton, Harriet  
 Wall;  
 Markoski, Larry James; Prasad, Josyula Venkata Nagendra Vara; et al.  
 PA Warner-Lambert Co., USA; Boyer, Frederick Earl, Jr.; Domagala, John  
 Michael; Ellsworth, Edmund Lee; Gajda, Christopher Andrew; Hagen, Susan  
 Elizabeth; Hamilton, Harriet Wall  
 SO PCT Int. Appl., 147 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9819997	A2	19980514	WO 1997-US19853	19971031
	WO 9819997	A3	19980827		
	W:	AL, AU, BA, BB, BG, BR, CA, CN, CZ, EE, GE, GH, HU, IL, IS, JP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	US 5834506	A	19981110	US 1997-883743	19970627
	AU 9851001	A1	19980529	AU 1998-51001	19971031
	AU 733700	B2	20010524		
	EP 935597	A2	19990818	EP 1997-913943	19971031
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
	BR 9714588	A	20000530	BR 1997-14588	19971031
	JP 2001504102	T2	20010327	JP 1998-521607	19971031
	US 6046355	A	20000404	US 1998-124190	19980728
	NO 9902103	A	19990430	NO 1999-2103	19990430
	KR 2000052951	A	20000825	KR 1999-703824	19990430
PRAI	US 1996-29906	P	19961101		
	US 1997-883743	A	19970627		
	WO 1997-US19853	W	19971031		
OS	MARPAT 129:16055				

L10 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 AN 1998:298262 CAPLUS  
 DN 129:61897  
 TI Magnetic recording medium and recording apparatus using same  
 IN Matsunuma, Satoshi; Hosoe, Yuzuru  
 PA Hitachi, Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 10124844 A2 19980515 JP 1996-281033 19961023

L10 ANSWER 29 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1998:147987 CAPLUS

DN 128:205178

TI Electroconductive polymers from Schiff's base monomers end-capped with terminal phenylacetylene groups. II

AU Kim, Il

CS Department Chemical Engineering, University Ulsan, Ulsan, 680-749, S. Korea

SO Polymer (Korea) (1998), 22(1), 64-73

CODEN: POLLDG; ISSN: 0379-153X

PB Polymer Society of Korea

DT Journal

LA Korean

L10 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1997:684224 CAPLUS

DN 128:8724

TI Photographic element containing recrystallizable 5-pyrazolone photographic coupler

IN Spara, Paul Patrick; Krishnamurthy, Sundaram; Cowan, Stanley Wray; McGarry, Ruthann M.

PA Eastman Kodak Co., USA

SO U.S., 23 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 5677118	A	19971014	US 1996-693938	19960510
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OS MARPAT 128:8724

L10 ANSWER 31 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1997:671222 CAPLUS

DN 127:341374

TI 4-Hydroxy-5,6-dihydropyrones. 2. Potent Non-Peptide Inhibitors of HIV Protease

AU Tait, Bradley D.; Hagen, Susan; Domagala, John; Ellsworth, Edmund; Gajda, Christopher; Hamilton, Harriet; Vara Prasad, J. V. N.; Ferguson, Donna; Graham, Neil; Hupe, Donald; Nouhan, Caroline; Tummino, Peter J.; Humblet, Christine; Lunney, Elizabeth A.; Pavlovsky, Alexander; Rubin, John; Baldwin, Eric T.; Bhat, T. N.; Erickson, John W.; Gulnik, Sergei V.; Liu, Beishan

CS Departments of Chemistry and Biochemistry and Biomolecular Structure and Drug Design, Parke-Davis Pharmaceutical Research Division of the Warner-Lambert Company, Ann Arbor, MI, 48106, USA

SO J. Med. Chem. (1997), 40(23), 3781-3792

CODEN: JMCMAR; ISSN: 0022-2623

PB American Chemical Society

DT Journal

LA English

L10 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1997:534077 CAPLUS

DN 127:247878

TI Synthesis and structural characterization of alkyl-substituted  
oligo(thio-1,4-phenylene)s  
AU Kuhn, Gerhard; Kelm, Jurgen  
CS Bundesanstalt Materialforschung -Prufung, Berlin, D-12205, Germany  
SO J. Prakt. Chem./Chem.- Ztg. (1997), 339(6), 578-581  
CODEN: JPCCEM; ISSN: 0941-1216  
PB Barth  
DT Journal  
LA English

L10 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:503117 CAPLUS  
DN 127:190852  
TI Process for the preparation of organosilicon disulfide compounds  
IN Cohen, Martin Paul; Wideman, Lawson Gibson  
PA Goodyear Tire and Rubber Co., USA  
SO Eur. Pat. Appl., 9 pp.  
CODEN: EPXXDW  
DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 785206	A1	19970723	EP 1997-100454	19970114
	R: BE, DE, FR, GB, IT				
	US 5663358	A	19970902	US 1996-589283	19960122
	CA 2180888	AA	19970723	CA 1996-2180888	19960710
	JP 10001487	A2	19980106	JP 1997-8522	19970121
PRAI	US 1996-589283		19960122		
OS	MARPAT 127:190852				

L10 ANSWER 34 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:453317 CAPLUS  
DN 127:154564  
TI Silver halide photographic material containing sulfonyl and/or disulfide  
compound as fog inhibitor  
IN Okada, Hisashi; Asanuma, Naoki  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 32 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09160167	A2	19970620	JP 1995-315008	19951204
OS	MARPAT 127:154564				

L10 ANSWER 35 OF 40 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:355091 CAPLUS  
DN 126:349862  
TI Bis[2-(triphenylsilyl)phenyl] disulfide  
AU Miller, John R.; Lu, Canzhong; Zheng, Yifan  
CS Dep. Biological Chem. Sci., Univ. Essex, Colchesster, CO4 3SQ, UK  
SO Acta Crystallogr., Sect. C: Cryst. Struct. Commun. (1997), C53(5),  
654-655  
CODEN: ACSCEE; ISSN: 0108-2701  
PB Munksgaard

DT Journal  
LA English

L10 ANSWER 36 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1997:275793 CAPLUS

DN 126:343549

TI New pyrrolobenzothiazepine derivatives as molecular probes of the  
"peripheral-type" benzodiazepine receptor (PBR) binding site

AU Campiani, G.; Nacci, V.; Fiorini, I.; De Filippis, M. P.; Garofalo, A.;  
Ciani, S. M.; Greco, G.; Novellino, E.; Manzoni, C.; Mennini, T.

CS Dipartimento Farmaco Chimico Tecnologico, Universita di Siena, Siena,  
53100, Italy

SO Eur. J. Med. Chem. (1997), 32(3), 241-252

CODEN: EJMCA5; ISSN: 0223-5234

PB Elsevier

DT Journal

LA English

L10 ANSWER 37 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1997:228839 CAPLUS

DN 126:311761

TI A new class of anti-HIV-1 agents targeted toward the nucleocapsid protein  
NCp7: the 2,2'-dithiobisbenzamides

AU Domagala, John M.; Bader, John P.; Gogliotti, Rocco D.; Sanchez, Joseph  
P.; Stier, Michael A.; Song, Yuntao; Prasad, J.V.N. Vara; Tummino, Peter  
J.; Scholten, Jeffrey; et al.

CS Division of Warner-Lambert Company, Departments of Chemistry and  
Therapeutics, Parke-Davis Pharmaceutical Research, Ann Arbor, MI, 48105,  
USA

SO Bioorg. Med. Chem. (1997), 5(3), 569-579

CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier

DT Journal

LA English

L10 ANSWER 38 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1997:204498 CAPLUS

DN 126:205418

TI Thermal processing type silver halide photographic material containing a  
disulfide derivative

IN Okada, Hisashi; Totani, Ichizo; Kojima, Tetsuo

PA Fuji Photo Film Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 38 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 09005926	A2	19970110	JP 1996-85994	19960315
PRAI	JP 1995-115274		19950418		

L10 ANSWER 39 OF 40 CAPLUS COPYRIGHT 2002 ACS

AN 1997:183782 CAPLUS

DN 126:287661

TI Derivatives of 2-mercaptobenzenesulfonamide. XIX. Syntheses, anticancer  
and anti-HIV activities of some 2-(4-chloro-2-  
mercaptobenzenesulfonylimino)perhydropyrimidines

AU Pomarnacka, Elzbieta  
 CS Department of Chemical Drug Technology, Medical University of Gdansk,  
 Gdansk, 80-416, Pol.  
 SO Acta Pol. Pharm. (1996), 53(5), 373-378  
 CODEN: APPHAX; ISSN: 0001-6837  
 PB Polish Pharmaceutical Society  
 DT Journal  
 LA English

L10 ANSWER 40 OF 40 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:10653 CAPLUS  
 DN 126:117777  
 TI The "Thio-Arbuzov" reaction of sulfenate esters with sulfenyl chlorides:  
 fate of the thiosulfinate product  
 AU Brown, Charles; Evans, Graham R.  
 CS Chem. Lab., Univ. Kent Canterbury, Canterbury, CT2 7NH, UK  
 SO Tetrahedron Lett. (1996), 37(50), 9101-9104  
 CODEN: TELEAY; ISSN: 0040-4039  
 PB Elsevier  
 DT Journal  
 LA English

=> d his

(FILE 'HOME' ENTERED AT 10:39:29 ON 11 JAN 2002)

FILE 'REGISTRY' ENTERED AT 10:39:37 ON 11 JAN 2002

L1 STRUCTURE UPLOADED  
 L2 50 S L1  
 L3 839 S (LINKER)

FILE 'REGISTRY' ENTERED AT 10:43:24 ON 11 JAN 2002

L4 0 S L2 AND LINKER  
 L5 0 S L2 AND LINK

FILE 'REGISTRY' ENTERED AT 10:45:18 ON 11 JAN 2002

SET TERMSET E#  
 DEL SEL Y  
 SEL L2 47 RN  
 L6 1 S E1/RN  
 SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 10:45:24 ON 11 JAN 2002

L7 1 S L6

FILE 'REGISTRY' ENTERED AT 10:46:06 ON 11 JAN 2002

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 DEL SEL Y  
 SEL L2 31 RN  
 L8 1 S E1/RN  
 SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 10:46:12 ON 11 JAN 2002

L9 1 S L8

FILE 'CAPLUS' ENTERED AT 10:46:42 ON 11 JAN 2002

L10 40 S L2

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16455462 1950<=PY<=1997  
L11 11 L10 AND 1950<=PY<=1997

=> d l11 1-11 bib

L11 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:684224 CAPLUS  
DN 128:8724  
TI Photographic element containing recrystallizable 5-pyrazolone  
photographic  
coupler  
IN Spara, Paul Patrick; Krishnamurthy, Sundaram; Cowan, Stanley Wray;  
McGarry, Ruthann M.  
PA Eastman Kodak Co., USA  
SO U.S., 23 pp.  
CODEN: USXXAM  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 5677118	A	19971014	US 1996-693938	19960510 <--
OS	MARPAT 128:8724				

L11 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:671222 CAPLUS  
DN 127:341374  
TI 4-Hydroxy-5,6-dihydropyrones. 2. Potent Non-Peptide Inhibitors of HIV  
Protease  
AU Tait, Bradley D.; Hagen, Susan; Domagala, John; Ellsworth, Edmund; Gajda,  
Christopher; Hamilton, Harriet; Vara Prasad, J. V. N.; Ferguson, Donna;  
Graham, Neil; Hupe, Donald; Nouhan, Caroline; Tummino, Peter J.; Humblet,  
Christine; Lunney, Elizabeth A.; Pavlovsky, Alexander; Rubin, John;  
Baldwin, Eric T.; Bhat, T. N.; Erickson, John W.; Gulnik, Sergei V.; Liu,  
Beishan  
CS Departments of Chemistry and Biochemistry and Biomolecular Structure and  
Drug Design, Parke-Davis Pharmaceutical Research Division of the  
Warner-Lambert Company, Ann Arbor, MI, 48106, USA  
SO J. Med. Chem. (1997), 40(23), 3781-3792  
CODEN: JMCMAR; ISSN: 0022-2623  
PB American Chemical Society  
DT Journal  
LA English

L11 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:534077 CAPLUS  
DN 127:247878  
TI Synthesis and structural characterization of alkyl-substituted  
oligo(thio-1,4-phenylene)s  
AU Kuhn, Gerhard; Kelm, Jurgen  
CS Bundesanstalt Materialforschung -Prufung, Berlin, D-12205, Germany  
SO J. Prakt. Chem./Chem.- Ztg. (1997), 339(6), 578-581  
CODEN: JPCCEM; ISSN: 0941-1216  
PB Barth  
DT Journal  
LA English

L11 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1997:503117 CAPLUS

DN 127:190852

TI Process for the preparation of organosilicon disulfide compounds

IN Cohen, Martin Paul; Wideman, Lawson Gibson

PA Goodyear Tire and Rubber Co., USA

SO Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 785206	A1	19970723	EP 1997-100454	19970114 <--
	R: BE, DE, FR, GB, IT				
	US 5663358	A	19970902	US 1996-589283	19960122 <--
	CA 2180888	AA	19970723	CA 1996-2180888	19960710 <--
	JP 10001487	A2	19980106	JP 1997-8522	19970121
PRAI	US 1996-589283		19960122		
OS	MARPAT 127:190852				

L11 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1997:453317 CAPLUS

DN 127:154564

TI Silver halide photographic material containing sulfonyl and/or disulfide compound as fog inhibitor

IN Okada, Hisashi; Asanuma, Naoki

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 32 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09160167	A2	19970620	JP 1995-315008	19951204 <--
OS	MARPAT 127:154564				

L11 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1997:355091 CAPLUS

DN 126:349862

TI Bis[2-(triphenylsilyl)phenyl] disulfide

AU Miller, John R.; Lu, Canzhong; Zheng, Yifan

CS Dep. Biological Chem. Sci., Univ. Essex, Colchesster, CO4 3SQ, UK

SO Acta Crystallogr., Sect. C: Cryst. Struct. Commun. (1997), C53(5), 654-655

CODEN: ACSCEE; ISSN: 0108-2701

PB Munksgaard

DT Journal

LA English

L11 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1997:275793 CAPLUS

DN 126:343549

TI New pyrrolobenzothiazepine derivatives as molecular probes of the "peripheral-type" benzodiazepine receptor (PBR) binding site

AU Campiani, G.; Nacci, V.; Fiorini, I.; De Filippis, M. P.; Garofalo, A.;

Ciani, S. M.; Greco, G.; Novellino, E.; Manzoni, C.; Mennini, T.  
 CS Dipartimento Farmaco Chimico Tecnologico, Universita di Siena, Siena,  
 53100, Italy  
 SO Eur. J. Med. Chem. (1997), 32(3), 241-252  
 CODEN: EJMCA5; ISSN: 0223-5234  
 PB Elsevier  
 DT Journal  
 LA English

L11 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:228839 CAPLUS  
 DN 126:311761  
 TI A new class of anti-HIV-1 agents targeted toward the nucleocapsid protein  
 NCp7: the 2,2'-dithiobisbenzamides  
 AU Domagala, John M.; Bader, John P.; Gogliotti, Rocco D.; Sanchez, Joseph  
 P.; Stier, Michael A.; Song, Yuntao; Prasad, J.V.N. Vara; Tummino, Peter  
 J.; Scholten, Jeffrey; et al.  
 CS Division of Warner-Lambert Company, Departments of Chemistry and  
 Therapeutics, Parke-Davis Pharmaceutical Research, Ann Arbor, MI, 48105,  
 USA  
 SO Bioorg. Med. Chem. (1997), 5(3), 569-579  
 CODEN: BMECEP; ISSN: 0968-0896  
 PB Elsevier  
 DT Journal  
 LA English

L11 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:204498 CAPLUS  
 DN 126:205418  
 TI Thermal processing type silver halide photographic material containing a  
 disulfide derivative  
 IN Okada, Hisashi; Totani, Ichizo; Kojima, Tetsuo  
 PA Fuji Photo Film Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 38 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 09005926	A2	19970110	JP 1996-85994	19960315 <--
PRAI	JP 1995-115274		19950418		

L11 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:183782 CAPLUS  
 DN 126:287661  
 TI Derivatives of 2-mercaptobenzenesulfonamide. XIX. Syntheses, anticancer  
 and anti-HIV activities of some 2-(4-chloro-2-  
 mercaptobenzenesulfonylimino)perhydropyrimidines  
 AU Pomarnacka, Elzbieta  
 CS Department of Chemical Drug Technology, Medical University of Gdansk,  
 Gdansk, 80-416, Pol.  
 SO Acta Pol. Pharm. (1996), 53(5), 373-378  
 CODEN: APPHAX; ISSN: 0001-6837  
 PB Polish Pharmaceutical Society  
 DT Journal  
 LA English

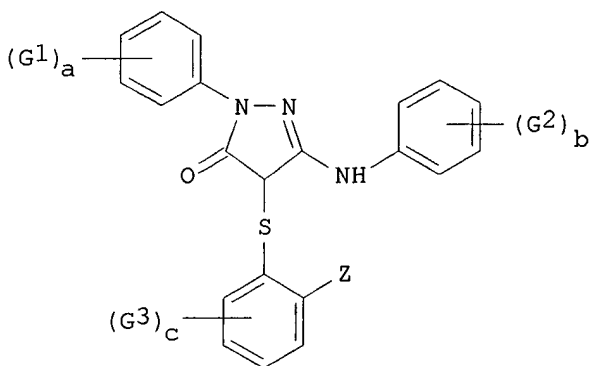


L11 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:10653 CAPLUS  
 DN 126:117777  
 TI The "Thio-Arbuzov" reaction of sulfenate esters with sulfenyl chlorides:  
 fate of the thiosulfinate product  
 AU Brown, Charles; Evans, Graham R.  
 CS Chem. Lab., Univ. Kent Canterbury, Canterbury, CT2 7NH, UK  
 SO Tetrahedron Lett. (1996), 37(50), 9101-9104  
 CODEN: TELEAY; ISSN: 0040-4039  
 PB Elsevier  
 DT Journal  
 LA English

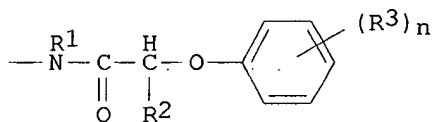
=> d l11 1-11 all

L11 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:684224 CAPLUS  
 DN 128:8724  
 TI Photographic element containing recrystallizable 5-pyrazolone  
 photographic  
 coupler  
 IN Spara, Paul Patrick; Krishnamurthy, Sundaram; Cowan, Stanley Wray;  
 McGarry, Ruthann M.  
 PA Eastman Kodak Co., USA  
 SO U.S., 23 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 IC ICM G03C007-384  
 NCL 430555000  
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other  
 Reprographic Processes)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 5677118	A	19971014	US 1996-693938	19960510 <--
OS	MARPAT 128:8724				
GI					



I



II

AB The invention provides a photog. element comprising a support bearing at least one silver halide emulsion layer having assocd. therewith a 5-pyrazolone photog. coupler represented by the formula I wherein G1-3 are

individually selected from the group consisting of hydrogen, halogen, alkyl, alkoxy, aryloxy, acylamino, alkylthio, arylthio, sulfonamido, sulfamoyl, sulfamido, carbamoyl, diacylamino, alkoxycarbonyl, aryloxycarbonyl, alkoxysulfonyl, aryloxysulfonyl, alkylsulfonyl, alkylsulfoxyl, arylsulfoxyl, arylsulfonyl, alkoxycarbonylamino, aryloxycarbonylamino, alkylureido, arylureido, acyloxy, nitro, cyano, and carboxy; a and b are individually integers from 0 to 5, provided that the sum of the sigma values for G1 and G2 is at least 1.3; c is an integer from 0 to 4; Z is a group of the formula II wherein R1 is selected from the group consisting of hydrogen, alkyl, alkenyl, aryl, acyl, and heterocyclic groups; R2 is selected from the group consisting of hydrogen and alkyl having from 1 to 16 carbon atom; and R3 is identically substituted Me or silyl and n is an integer from 1 to 3.

ST recrystallizable pyrazolone photog coupler

IT Photographic couplers

(recrystallizable pyrazolone derivs. as)

IT 101820-00-2P 189939-81-9P 189939-83-1P 198696-51-4P 198696-52-5P  
**198696-53-6P** 198696-55-8P

RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(prepn. and reaction in prepn. of pyrazolone photog. coupler)

IT 198696-50-3P 198696-54-7P 198696-56-9P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(prepn. and use as photog. coupler)

IT 96-76-4 615-96-3 1141-88-4 160309-51-3

RL: RCT (Reactant); TEM (Technical or engineered material use); USES (Uses)

(reaction in prepn. of pyrazolone photog. coupler)

L11 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1997:671222 CAPLUS

DN 127:341374  
 TI 4-Hydroxy-5,6-dihydropyrones. 2. Potent Non-Peptide Inhibitors of HIV Protease  
 AU Tait, Bradley D.; Hagen, Susan; Domagala, John; Ellsworth, Edmund; Gajda, Christopher; Hamilton, Harriet; Vara Prasad, J. V. N.; Ferguson, Donna; Graham, Neil; Hupe, Donald; Nouhan, Caroline; Tummino, Peter J.; Humblet, Christine; Lunney, Elizabeth A.; Pavlovsky, Alexander; Rubin, John; Baldwin, Eric T.; Bhat, T. N.; Erickson, John W.; Gulnik, Sergei V.; Liu, Beishan  
 CS Departments of Chemistry and Biochemistry and Biomolecular Structure and Drug Design, Parke-Davis Pharmaceutical Research Division of the Warner-Lambert Company, Ann Arbor, MI, 48106, USA  
 SO J. Med. Chem. (1997), 40(23), 3781-3792  
 CODEN: JMCMAR; ISSN: 0022-2623  
 PB American Chemical Society  
 DT Journal  
 LA English  
 CC 1-3 (Pharmacology)  
 Section cross-reference(s): 27  
 AB The 4-hydroxy-5,6-dihydropyrone template was utilized as a flexible scaffolding from which to build potent active site inhibitors of HIV protease. Dihydropyrone (5,6-dihydro-4-hydroxy-6-phenyl-3-[(2-phenylethyl)thio]-2H-pyran-2-one) (I) was modeled in the active site of HIV protease utilizing a similar binding mode found for the previously reported 4-hydroxybenzopyran-2-ones. Our model led us to pursue the synthesis of 6,6-disubstituted dihydropyrones with the aim of filling S1 and S2 and thereby increasing the potency of the parent dihydropyrone I which did not fill S2. Toward this end we attached various hydrophobic and hydrophilic side chains at the 6-position of the dihydropyrone to mimic the natural and unnatural amino acids known to be effective substrates at P2 and P2'. Parent dihydropyrone I (IC<sub>50</sub> = 2100 nM) was elaborated into compds. with greater than a 100-fold increase in potency  
 [5-(3,6-dihydro-4-hydroxy-6-oxo-2-phenyl-5-[2-(phenylethyl)thio]-2H-pyran-2-yl)pentanoic acid and  
 5,6-dihydro-4-hydroxy-6-phenyl-6-(2-phenylethyl)-3-[(2-phenylethyl)thio]-2H-pyran-2-one; IC = 5 and 51 nM, resp.].  
 Optimization of the 3-position fragment to fill S1' and S2' afforded potent HIV protease inhibitor [3-[(2-tert-butyl-5-methylphenyl)sulfanyl]-5,6-dihydro-4-hydroxy-6-phenyl-6-(2-phenylethyl)-2H-pyran-2-one, IC = 10 nM]. The resulting low mol. wt. compds. (<475) have one or no chiral centers and are readily synthesized.  
 ST dihydropyrone deriv prepn HIV protease inhibitor; antiviral HIV protease inhibitor mol modeling  
 IT Anti-AIDS drugs  
 Antiviral agents  
 Antiviral structure-activity relationship  
 Molecular modeling  
 (mol. modeling and prepn. of 4-hydroxy-5,6-dihydropyrones as inhibitors of HIV protease)  
 IT 144114-21-6, Retropepsin  
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitors; mol. modeling and prepn. of 4-hydroxy-5,6-dihydropyrones as inhibitors of HIV protease)  
 IT 137-06-4P 6262-87-9P 6807-50-7P 90927-69-8P 90927-71-2P 169599-78-4P 169599-79-5P 169599-82-0P 169599-83-1P 169600-06-0P

169600-08-2P	169600-09-3P	169600-10-6P	169600-11-7P	169600-12-8P
169600-13-9P	169600-14-0P	169600-15-1P	169600-16-2P	169600-17-3P
169600-19-5P	169600-23-1P	169600-24-2P	169600-25-3P	169600-26-4P
169600-27-5P	169600-28-6P	169600-29-7P	169600-30-0P	169600-31-1P
169600-32-2P	169600-33-3P	169600-34-4P	169600-35-5P	169600-37-7P
169600-45-7P	169600-46-8P	169600-48-0P	169600-49-1P	169600-53-7P
169600-56-0P	169600-58-2P	169600-61-7P	169600-62-8P	169601-06-3P
170914-10-0P	170915-32-9P	170915-39-6P	170915-44-3P	183120-00-5P
183120-05-0P	183120-07-2P	183120-09-4P	183120-11-8P	198123-56-7P
198123-57-8P	198123-58-9P	198123-59-0P	198123-60-3P	198123-61-4P
198123-62-5P	198123-63-6P	198123-64-7P	198123-65-8P	198123-66-9P
198123-67-0P	198123-68-1P	198123-69-2P	198123-70-5P	198123-71-6P
<b>198123-72-7P</b>	198123-73-8P			

RL: BAC (Biological activity or effector, except adverse); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(mol. modeling and prepn. of 4-hydroxy-5,6-dihydropyrones as inhibitors of HIV protease)

IT 70-11-1, .alpha.-Bromoacetophenone 100-61-8, N-Methylaniline, reactions 105-45-3, Methylacetoacetate 128-08-5 618-45-1, 3-Isopropylphenol 16601-02-8, Benzyl p-toluenethiosulfonate 53603-17-1 119346-10-0, 3-Benzoylpropionic acid sodium salt 169601-71-2

RL: RCT (Reactant)

(mol. modeling and prepn. of 4-hydroxy-5,6-dihydropyrones as inhibitors of HIV protease)

IT	4151-60-4P	23033-65-0P	32119-53-2P	41479-98-5P	162174-61-0P
	169601-32-5P	169601-49-4P	169601-55-2P	169601-59-6P	169601-60-9P
	169601-61-0P	169601-63-2P	169601-64-3P	169601-65-4P	169601-66-5P
	169601-67-6P	169601-72-3P	169601-73-4P	169601-99-4P	169602-00-0P
	169602-01-1P	169602-02-2P	198123-51-2P	198123-52-3P	198123-53-4P
	198123-54-5P	198123-55-6P			

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(mol. modeling and prepn. of 4-hydroxy-5,6-dihydropyrones as inhibitors of HIV protease)

L11 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1997:534077 CAPLUS

DN 127:247878

TI Synthesis and structural characterization of alkyl-substituted oligo(thio-1,4-phenylene)s

AU Kuhn, Gerhard; Kelm, Jurgen

CS Bundesanstalt Materialforschung -Prufung, Berlin, D-12205, Germany

SO J. Prakt. Chem./Chem.- Ztg. (1997), 339(6), 578-581

CODEN: JPCCEM; ISSN: 0941-1216

PB Barth

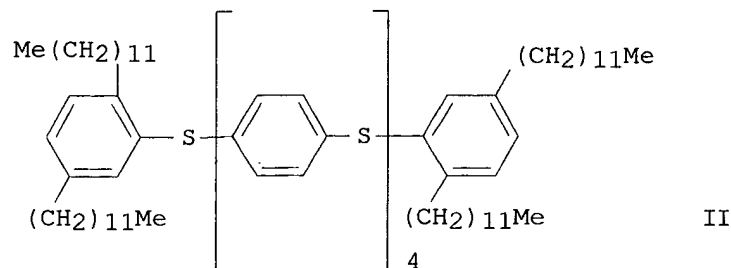
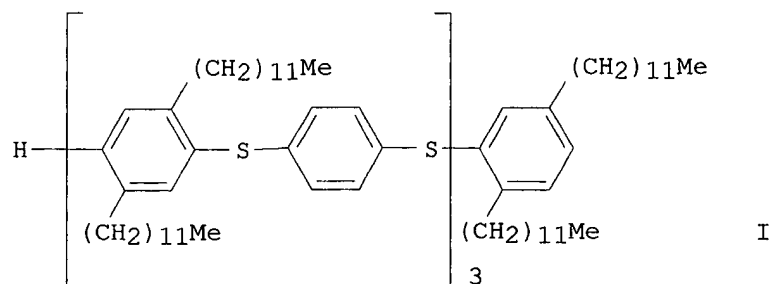
DT Journal

LA English

CC 25-9 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 35

GI



AB Alkyl-substituted oligo(thio-1,4-phenylene)s I and II were prepd. starting

from 1,4-didodecylbenzene.

ST thiophenylene oligomer prepn

IT **195822-63-0P** 195822-68-5P

RL: BYP (Byproduct); PREP (Preparation)

(prepn. of alkyl-substituted oligo(thiophenylene)s)

IT 106-37-6, 1,4-Dibromobenzene 108-98-5, Thiophenol, reactions  
3379-81-5

5149-65-5, 1,4-Didodecylbenzene

RL: RCT (Reactant)

(prepn. of alkyl-substituted oligo(thiophenylene)s)

IT 79995-41-8P 195822-60-7P 195822-61-8P 195822-62-9P 195822-65-2P  
195822-66-3P 195822-67-4P 195822-69-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(prepn. of alkyl-substituted oligo(thiophenylene)s)

IT 195822-70-9P 195822-74-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of alkyl-substituted oligo(thiophenylene)s)

L11 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1997:503117 CAPLUS

DN 127:190852

TI Process for the preparation of organosilicon disulfide compounds

IN Cohen, Martin Paul; Wideman, Lawson Gibson

PA Goodyear Tire and Rubber Co., USA

SO Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C07F007-18

CC 29-6 (Organometallic and Organometalloidal Compounds)

FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO. DATE

PI EP 785206 A1 19970723 EP 1997-100454 19970114 <--  
 R: BE, DE, FR, GB, IT  
 US 5663358 A 19970902 US 1996-589283 19960122 <--  
 CA 2180888 AA 19970723 CA 1996-2180888 19960710 <--  
 JP 10001487 A2 19980106 JP 1997-8522 19970121  
 PRAI US 1996-589283 19960122  
 OS MARPAT 127:190852  
 AB The present invention relates to a process for the prepn. of organo  
 silicon disulfide compds. which are useful as adhesion promoters in  
 sulfur-vulcanizable rubber mixts. reinforced with inorg. materials such  
 as  
 glass SiO<sub>2</sub>, aluminosilicates, and carbon black. The process involves  
 reacting a mercaptoalkoxysilane with a sulfenamide compd. Thus, reaction  
 of N-cyclohexyl-2-benzothiazolesulfenamide with 3-  
 mercaptopropyltriethoxysilane gave a mixt. of 2-benzothiazyl-(3-  
 triethoxy)propyl disulfide and bis(3-triethoxysilyl)propyl disulfide.  
 ST organo silicon disulfide prepn  
 IT Disulfides  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (process for prepn. of organosilicon disulfide compds.)  
 IT 56706-10-6P, Bis(3-triethoxysilyl)propyl disulfide  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (8)  
 IT 35112-74-4P, 3,3'-Bis(trimethoxysilylpropyl) disulfide 58392-98-6P,  
 2,2'-Bis(trimethoxysilylethyl) disulfide 63501-64-4P 64470-10-6P  
 108857-77-8P 170573-33-8P 170573-34-9P 170573-35-0P 170573-37-2P  
 170573-38-3P 170573-39-4P 170573-40-7P 170573-41-8P 170573-42-9P  
 170573-43-0P 170573-44-1P 170573-45-2P 170573-46-3P 170573-47-4P  
 170573-48-5P 170573-49-6P 170573-50-9P 170573-51-0P 170573-52-1P  
 170573-53-2P 170573-54-3P 170573-55-4P 170573-56-5P 170573-57-6P  
 173176-00-6P 188561-27-5P 194205-35-1P 194205-36-2P 194205-37-3P  
 194205-38-4P 194205-39-5P 194205-41-9P 194205-42-0P 194205-45-3P  
 194205-46-4P 194205-47-5P 194205-49-7P 194205-50-0P 194205-51-1P  
 194205-52-2P 194205-53-3P 194205-54-4P 194205-58-8P 194205-59-9P  
 194205-60-2P 194205-61-3P 194205-62-4P 194205-63-5P 194205-64-6P  
 194205-68-0P 194205-69-1P 194299-47-3P 194299-57-5P 194299-58-6P  
 194299-59-7P 194299-60-0P 194299-61-1P **194299-62-2P**  
 194299-63-3P 194299-64-4P 194299-65-5P 194299-66-6P 194299-67-7P  
 194299-68-8P 194299-69-9P 194299-70-2P 194299-71-3P 194299-72-4P  
 194299-74-6P 194299-82-6P 194299-83-7P 194299-85-9P 194299-89-3P  
 194299-91-7P 194299-93-9P 194299-95-1P 194299-97-3P 194299-99-5P  
 194300-01-1P 194300-03-3P 194300-05-5P 194300-07-7P 194300-09-9P  
 194300-11-3P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)  
 IT 95-29-4 95-31-8, N-tert-Butyl-2-benzothiazolesulfenamide 2720-65-2  
 4420-74-0, 3-Mercaptopropyltrimethoxysilane 4979-32-2,  
 N,N-Dicyclohexyl-2-benzothiazolylsulfenamide 7538-45-6,  
 2-Mercaptoethyltrimethoxysilane 10220-34-5, N-Isopropyl-2-  
 benzothiazolylsulfenamide 13818-38-7 13821-71-1 14814-09-6,  
 3-Mercaptopropyltriethoxysilane 14857-97-7 24056-72-2 27464-39-7  
 31001-77-1 37592-40-8 58495-78-6, 2-Mercaptoethyltripropoxysilane  
 58505-63-8 94291-66-4 100080-03-3 141137-15-7 170573-62-3,  
 2-Mercaptopropyltriethoxysilane 170573-63-4 170573-64-5 170573-65-6  
 170573-66-7 170573-67-8 170573-68-9 170573-69-0 170573-70-3  
 170573-71-4 170573-72-5 170573-73-6 170573-74-7 170573-75-8  
 170573-76-9 170573-77-0 170573-78-1 170573-79-2 170573-80-5

194300-13-5, 2-Mercaptoethyltri-tert-butoxysilane 194300-24-8  
194300-26-0 194300-28-2 194300-30-6 194300-32-8 194300-34-0  
194300-36-2 194300-38-4 194300-40-8 194300-42-0 194300-44-2  
194300-46-4

RL: RCT (Reactant)

(process for prepn. of organosilicon disulfide compds.)

IT 95-33-0, N-Cyclohexyl-2-benzothiazolesulfenamide

RL: RCT (Reactant)

(reaction with mercaptoalkylsilanes)

L11 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1997:453317 CAPLUS

DN 127:154564

TI Silver halide photographic material containing sulfonyl and/or disulfide compound as fog inhibitor

IN Okada, Hisashi; Asanuma, Naoki

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 32 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G03C001-498

ICS G03C001-00; G03C001-35

CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 09160167	A2	19970620	JP 1995-315008	19951204 <--
OS	MARPAT 127:154564				
AB	The Ag halide photosensitive material contains .gtoreq.1 compd. RSO <sub>2</sub> LSO <sub>2</sub> CX <sub>1</sub> X <sub>2</sub> A ( I; R = aliph. hydrocarbon, aryl, heterocycle; L = divalent arylene or heterocycle; X <sub>1</sub> , X <sub>2</sub> = halo; A = H, halo, electron-attracting group). The heat development photosensitive material contains .gtoreq.1 of I and optionally .gtoreq.1 compd. R <sub>1</sub> S <sub>2</sub> SnR <sub>2</sub> (R <sub>1</sub> , R <sub>2</sub> = aliph. hydrocarbon, aryl, heterocycle; n = 0-4). The materials shows high sensitivity and low fog and provides improved color quality images. Thus, a heat development photosensitive film was prepd. by using a Ag halide emulsion layer contg. p-MeSO <sub>2</sub> C <sub>6</sub> H <sub>4</sub> SO <sub>2</sub> CBr <sub>3</sub> . ST heat developable photog film fog inhibitor; sulfonyl compd photog fog inhibitor; disulfide compd photog fog inhibitor IT Photographic fog inhibitors (heat-developable photog. film contg. sulfonyl and/or disulfide compd. as fog inhibitor) IT Photographic films (heat-developable photog. film contg. sulfonyl and/or disulfide compd. as fog inhibitors) IT 152171-23-8P, [4-(Phenylthio)phenylthio] acetic acid RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation) (bromination of; prepn. of sulfonyl compd. photog. fog inhibitor) IT 187744-20-3 187744-21-4 187744-26-9 193342-81-3 193342-82-4 193342-83-5 193342-84-6 193342-85-7 193342-86-8 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses) (heat-developable photog. film contg. sulfonyl and/or disulfide compd.				

as fog inhibitor)

IT 2527-63-1P 3982-42-1P 4104-52-3P 4490-97-5P 4508-09-2P  
 14897-91-7P 52017-43-3P 69200-87-9P 152171-22-7P  
**187744-16-7P** 187744-18-9P 187744-22-5P 187744-23-6P  
 187744-24-7P 187744-25-8P 187744-29-2P 187744-31-6P 187744-32-7P  
 187744-33-8P 193342-87-9P 193342-88-0P 193342-89-1P 193342-90-4P  
 RL: DEV (Device component use); MOA (Modifier or additive use); PNU  
 (Preparation, unclassified); PREP (Preparation); USES (Uses)  
 (heat-developable photog. film contg. sulfonyl and/or disulfide compd.  
 as fog inhibitor)

IT 31183-89-8P, (2,2'-Diamino-5,5'-dichlorodiphenyl)disulfide 31183-91-2P,  
 (2,2'-Diamino-5,5'-dimethyldiphenyl)disulfide  
 RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation)  
 (prepn. of disulfide compd. photog. fog inhibitor)

IT 62-53-3, Benzenamine, reactions 75-36-5, Acetyl chloride 85-46-1,  
 1-Naphthalenesulfonyl chloride 86-84-0, 1-Naphthalene isocyanate  
 93-11-8, 2-Naphthalenesulfonyl chloride 95-24-9, 2-Amino-6-  
 chlorobenzothiazole 98-09-9, Benzenesulfonyl chloride 98-59-9,  
 p-Toluenesulfonyl chloride 98-68-0, p-Methoxybenzenesulfonyl chloride  
 98-88-4, Benzoyl chloride 103-71-9, Phenyl isocyanate, reactions  
 119-80-2 356-42-3, Pentafluoropropionyl anhydride 722-27-0  
 773-64-8,  
 2-Mesitylenesulfonyl chloride 1141-88-4 2243-83-6,  
 2-Naphthalenecarbonyl chloride 2251-50-5, Pentafluorobenzoyl chloride  
 2524-64-3 2536-91-6, 2-Amino-6-methylbenzothiazole 15945-07-0,  
 2,4,5-Trichlorobenzenesulfonyl chloride  
 RL: RCT (Reactant)  
 (prepn. of disulfide compd. photog. fog inhibitor)

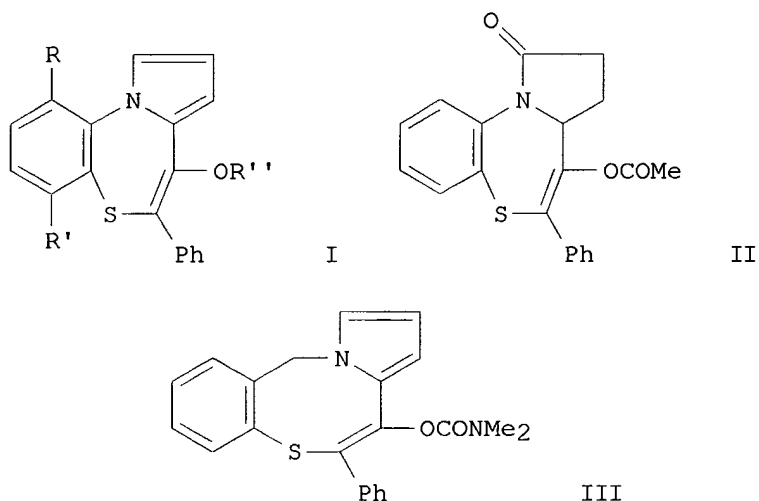
IT 3926-62-3, Sodium monochloroacetate 52872-99-8,  
 4-Phenylthiobenzenethiol  
 RL: RCT (Reactant)  
 (prepn. of sulfonyl compd. photog. fog inhibitor)

L11 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:355091 CAPLUS  
 DN 126:349862  
 TI Bis[2-(triphenylsilyl)phenyl] disulfide  
 AU Miller, John R.; Lu, Canzhong; Zheng, Yifan  
 CS Dep. Biological Chem. Sci., Univ. Essex, Colchesster, CO4 3SQ, UK  
 SO Acta Crystallogr., Sect. C: Cryst. Struct. Commun. (1997),  
 C53(5), 654-655  
 CODEN: ACSCEE; ISSN: 0108-2701  
 PB Munksgaard  
 DT Journal  
 LA English  
 CC 75-8 (Crystallography and Liquid Crystals)  
 Section cross-reference(s): 29  
 AB The title compd., C48H38S2Si2, was obtained by the oxidn. of the  
 corresponding thiol in the presence of Cu(I) chloride; the mol. structure  
 is reported. Crystallog. data are given.  
 ST mol structure phenylsilylphenyl sulfide  
 IT Crystal structure  
 Molecular structure  
 (of bis[(triphenylsilyl)phenyl] disulfide)  
 IT 117526-60-0, 2-(Triphenylsilyl)benzenethiol  
 RL: RCT (Reactant)  
 (oxidn. in presence of cuprous chloride of)  
 IT **189943-50-8P**



RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and crystal structure of)

L11 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:275793 CAPLUS  
DN 126:343549  
TI New pyrrolobenzothiazepine derivatives as molecular probes of the  
"peripheral-type" benzodiazepine receptor (PBR) binding site  
AU Campiani, G.; Nacci, V.; Fiorini, I.; De Filippis, M. P.; Garofalo, A.;  
Ciani, S. M.; Greco, G.; Novellino, E.; Manzoni, C.; Mennini, T.  
CS Dipartimento Farmaco Chimico Tecnologico, Universita di Siena, Siena,  
53100, Italy  
SO Eur. J. Med. Chem. (1997), 32(3), 241-252  
CODEN: EJMCA5; ISSN: 0223-5234  
PB Elsevier  
DT Journal  
LA English  
CC 28-22 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 1  
GI



AB A no. of new pyrrolobenzothiazepine derivs. I [R = H, Me, Cl; R1 = H, Cl; R2 = CONEt2, CO(CH2)5Me, COMe, etc.] and II and a pyrrolobenzothiazocine deriv. III have been synthesized and evaluated for their affinity towards the "peripheral-type" benzodiazepine receptor (PBR). The new compds. were tested in rat cortex, a tissue expressing a high d. of mitochondrial PBR. Some of the pyrrolobenzothiazepines exhibited IC50 values in the low nanomolar range as measured by the displacement of [3H]PK 11195 binding. I (R = H, R1 = Cl, R2 = CONEt2) was found to be the most potent ligand for this receptor in the pyrrolobenzothiazepine subgroup with an IC50 practically identical to that detd. for PK 11195. Structure-affinity relationships (SARs) have been developed to elucidate the topol. of the

PBR binding site.

ST pyrrolobenzothiazepine prepn benzodiazepine receptor binding;  
benzothiazepine pyrrolo prepn benzodiazepine receptor binding; structure  
activity pyrrolobenzothiazepine benzodiazepine receptor binding;  
pyrrolobenzothiazocine prepn benzodiazepine receptor binding

IT Benzodiazepine receptors  
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)  
(prepn. and benzodiazepine receptor binding activity of  
pyrrolobenzothiazepines)

IT 156274-66-7P 189883-72-5P 189883-73-6P 189883-74-7P 189883-75-8P  
189883-76-9P 189883-77-0P 189883-78-1P 189883-79-2P 189883-80-5P  
189883-81-6P 189883-82-7P 189883-87-2P  
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic  
preparation); BIOL (Biological study); PREP (Preparation)  
(prepn. and benzodiazepine receptor binding activity of  
pyrrolobenzothiazepines)

IT 71-43-2, Benzene, reactions 79-44-7, Dimethylcarbamoyl chloride  
88-10-8, Diethylcarbamoyl chloride 105-36-2, Ethyl bromoacetate  
111-64-8, Octanoyl chloride 696-59-3, 2,5-Dimethoxytetrahydrofuran  
1477-42-5 2528-61-2, Heptanoyl chloride 2719-27-9,  
Cyclohexanecarbonyl  
chloride 4870-65-9, .alpha.-Bromophenylacetic acid 15159-40-7,  
4-Morpholinecarbonyl chloride 19009-39-3, Diisopropylcarbamoyl chloride  
19952-47-7 85725-90-2 99141-18-1 155908-94-4 189883-83-8  
RL: RCT (Reactant)  
(prepn. and benzodiazepine receptor binding activity of  
pyrrolobenzothiazepines)

IT 156274-73-6P 156274-74-7P 156274-75-8P 156274-76-9P 177578-93-7P  
189883-67-8P **189883-68-9P** 189883-69-0P 189883-70-3P  
189883-71-4P 189883-84-9P 189883-85-0P 189883-86-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and benzodiazepine receptor binding activity of  
pyrrolobenzothiazepines)

L11 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:228839 CAPLUS  
DN 126:311761  
TI A new class of anti-HIV-1 agents targeted toward the nucleocapsid protein  
NCp7: the 2,2'-dithiobisbenzamides  
AU Domagala, John M.; Bader, John P.; Gogliotti, Rocco D.; Sanchez, Joseph  
P.; Stier, Michael A.; Song, Yuntao; Prasad, J.V.N. Vara; Tummino, Peter  
J.; Scholten, Jeffrey; et al.  
CS Division of Warner-Lambert Company, Departments of Chemistry and  
Therapeutics, Parke-Davis Pharmaceutical Research, Ann Arbor, MI, 48105,  
USA  
SO Bioorg. Med. Chem. (1997), 5(3), 569-579  
CODEN: BMECEP; ISSN: 0968-0896  
PB Elsevier  
DT Journal  
LA English  
CC 1-5 (Pharmacology)  
Section cross-reference(s): 25  
AB As part of the National Cancer Institute's Drug Screening Program, a new  
class of antiretrovirals active against the human immunodeficiency virus  
HIV-1 has been identified, and the HIV-1 nucleocapsid protein NCp7 was  
proposed as the target of antiviral action. The 2,2'-dithiobis-[4'-  
(sulfamoyl)benzanilide] and the 2,2'-dithiobis(5-acetylamino)benzamide  
represented the prototypic lead structures. A wide variety of

2,2'-dithiobisbenzamides were prepd. and tested for anti-HIV-1 activity, cytotoxicity, and their ability to extrude zinc from the zinc fingers for NCp7. The structure-activity relationships demonstrated that the ability to extrude zinc from NCp7 resided in the 2,2'-dithiobisbenzamide core structure. The 3,3' and the 4,4' isomers were inactive. While many analogs based upon the core structure retained the zinc extrusion activity, the best overall anti-HIV-1 activity was only found in a narrow set of derivs. possessing carboxylic acid, carboxamide, or phenylsulfonamide functional groups. These functional groups were more important for reducing cytotoxicity than improving antiviral potency or activity vs. NCp7. All of the compds. with antiviral activity also extruded zinc from NCp7. From this study several classes of low .mu.M anti-HIV agents with simple chem. structures were identified as possible chemotherapeutic agents for the treatment of AIDS.

ST nucleocapsid protein NCp7 HIV1 antiviral dithiobisbenzamide;  
dithiobisbenzamide prepn HIV1 virus inhibition structure; AIDS treatment  
dithiobisbenzamide nucleocapsid protein NCp7

IT Nucleocapsid proteins  
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)  
(NC(p7) (nucleocapsid, p7); prepn. of dithiobisbenzamides as new class  
of anti-HIV-1 agents targeted toward nucleocapsid protein NCp7 in  
relation to structure and extrusion of zinc from zinc finger)

IT Anti-AIDS drugs  
Antiviral agents  
Human immunodeficiency virus 1  
(prepn. of dithiobisbenzamides as new class of anti-HIV-1 agents  
targeted toward nucleocapsid protein NCp7 in relation to structure and  
extrusion of zinc from zinc finger)

IT 19602-82-5P, 2,2'-Dithiobisbenzoyl chloride 92906-21-3P 177785-53-4P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(intermediate; prepn. of dithiobisbenzamides as new class of  
anti-HIV-1  
agents targeted toward nucleocapsid protein NCp7 in relation to  
structure and extrusion of zinc from zinc finger)

IT 2527-64-2P  
RL: BAC (Biological activity or effector, except adverse); PRP  
(Properties); RCT (Reactant); SPN (Synthetic preparation); THU  
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
(Uses)  
(prepn. of dithiobisbenzamides as new class of anti-HIV-1 agents  
targeted toward nucleocapsid protein NCp7 in relation to structure and  
extrusion of zinc from zinc finger)

IT 119-80-2P 1160-68-5P 2527-57-3P 2527-58-4P 2527-59-5P  
2527-60-8P

2527-62-0P	2527-63-1P	2634-30-2P	2634-31-3P	2752-93-4P
2752-94-5P	5459-63-2P	7765-77-7P	7765-79-9P	7765-80-2P
17407-52-2P	19602-83-6P	19602-85-8P	32276-24-7P	37010-19-8P
49755-40-0P	49755-44-4P	49755-48-8P	63956-06-9P	63956-08-1P
78010-07-8P	89011-97-2P	90520-54-0P	98051-90-2P	107920-19-4P
130752-42-0P	143467-53-2P	171744-39-1P	171744-40-4P	171744-41-5P
171744-43-7P	173590-72-2P	173590-73-3P	177785-55-6P	177785-58-9P
177785-92-1P	177786-17-3P	177786-20-8P	177786-24-2P	177786-28-6P
177786-33-3P	177786-38-8P	177786-41-3P	177786-44-6P	182149-25-3P
186130-50-7P	186130-65-4P	187872-00-0P	189367-79-1P	189367-80-4P
189367-81-5P	189367-82-6P	189367-83-7P	189367-84-8P	189367-85-9P
189367-86-0P	189367-87-1P	<b>189367-88-2P</b>	189367-89-3P	
189367-90-6P	189367-91-7P	189367-92-8P	189367-93-9P	189367-94-0P
189367-98-4P				

RL: BAC (Biological activity or effector, except adverse); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of dithiobisbenzamides as new class of anti-HIV-1 agents targeted toward nucleocapsid protein NCp7 in relation to structure and extrusion of zinc from zinc finger)

IT 7440-66-6, Zinc, biological studies  
 RL: BPR (Biological process); BIOL (Biological study); PROC (Process)  
 (prepn. of dithiobisbenzamides as new class of anti-HIV-1 agents targeted toward nucleocapsid protein NCp7 in relation to structure and extrusion of zinc from zinc finger)

IT 63-74-1 75-64-9, tert-Butylamine, reactions 108-44-1,  
 3-Methylaniline,  
 reactions 443-79-8, (.+-.)-Isoleucine 769-92-6, 4-tert-Butylaniline 1155-51-7, 4,4'-Dithiobisbenzoic acid 1227-49-2 7298-84-2, L-Leucyl-L-alanine 16588-15-1, 2-Chloro-5-nitrobenzamide 16874-08-1, Isoleucine tert-butyl ester  
 RL: RCT (Reactant)  
 (reactant; prepn. of dithiobisbenzamides as new class of anti-HIV-1 agents targeted toward nucleocapsid protein NCp7 in relation to structure and extrusion of zinc from zinc finger)

L11 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2002 ACS  
 AN 1997:204498 CAPLUS  
 DN 126:205418  
 TI Thermal processing type silver halide photographic material containing a disulfide derivative  
 IN Okada, Hisashi; Totani, Ichizo; Kojima, Tetsuo  
 PA Fuji Photo Film Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 38 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G03C001-498  
 ICS G03C001-498  
 CC 74-2 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09005926	A2	19970110	JP 1996-85994	19960315 <--
PRAI	JP 1995-115274		19950418		

AB Claimed photog. material contains a disulfide compd. R1SSR2 (I; R1 = aryl, pyridyl, quinolyl; R2 = aryl, pyridyl, quinolyl having substituent selected from aliph. hydrocarbon, aryl, amino, alkoxy, aryloxy, acylamino, carbamoyl, sulfonylamino, phosphoramido, sulfamoyl, alkylthio, arylthio, thiocarbonyl, sulfonyl, sulfinyl, ureide, thioureide, thioamido, OH, mercapto, sulfo, phosphono, hydroxamic acid residue, heterocyclic group). Also claimed is the photog. material contg., in addn. to the compd. I, a polyhalomethane QYnC(X1)(X2)A (II; Q = aryl, heterocyclic group; X1, X2 = halo; Y = C(LO), SO2, SO; A = H, halo, electron-attracting group; n = 0, 1). It has low fog, and provides an image with improved neutral color tone, and also has the stability of both before and after processing. Suitable compd. II are bis(2-benzoamidophenyl)disulfide, bis[4-(phenylaminocarbonyl)phenyl]disulfide, bis[2-(phenylsulfoamino)phenyl]disulfide, etc., and suitable compd. II are

benzothiazol-2-yl-sulfonyl-dibromomethane, 2-(tribromomethylsulfonyl)-5-methyl-thiadiazole, etc. The additives are incorporated in the thermal processed type photog. material comprising Ag behenate, preformed Ag(Br, I) crystals, phthalazone, poly(vinyl butyral) binder, etc.

ST thermal processing type photog material; disulfide deriv additive photog material; aryl disulfide additive photog material; pyridyl disulfide additive photog material; polyhalomethane additive photog material

IT Photographic films  
Photographic fog inhibitors  
Photographic stabilizers  
(thermal processing type silver halide photog. material contg. disulfide deriv. to improve color tone and reduce fog)

IT 31183-89-8P, (2,2'-Diamino-5,5'-dichlorodiphenyl)disulfide  
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation) (disulfide compds. from; for thermal processing type silver halide photog. material)

IT 62-53-3, Aniline, reactions 75-36-5, Acetylchloride 85-46-1, 1-Naphthalenesulfonyl chloride 86-84-0, 1-Naphthylisocyanate 93-11-8, 2-Naphthalenesulfonyl chloride 95-24-9, 2-Amino-6-chlorobenzothiazole 98-09-9, Benzenesulfonyl chloride 98-59-9, p-Toluenesulfonyl chloride 98-68-0, p-Methoxybenzenesulfonyl chloride 98-88-4, Benzoyl chloride 103-71-9, Phenylisocyanate, reactions 119-80-2 121-44-8, reactions 356-42-3, Pentafluoropropionic anhydride 722-27-0, 4,4'-Dithiodianiline 773-64-8, 2-Mesitylenesulfonyl chloride 1141-88-4, 2,2'-Dithiodianiline 2243-83-6, 2-Naphthalenecarboxylic acid chloride 2251-50-5, Pentafluorobenzoyl chloride 2524-64-3, Diphenylchlorophosphate 2536-91-6, 2-Amino-6-methylbenzothiazole 7719-09-7, Thionyl chloride 15945-07-0, 2,4,5-Trichlorobenzenesulfonyl chloride  
RL: RCT (Reactant)  
(disulfide compds. from; for thermal processing type silver halide photog. material)

IT 31274-42-7  
RL: DEV (Device component use); USES (Uses)  
(for thermal processing type silver halide photog. material)

IT 160029-59-4  
RL: DEV (Device component use); USES (Uses)  
(thermal processing type silver halide photog. material contg. disulfide deriv. and halomethane deriv.)

IT 135-57-9 115484-15-6 **187744-17-8** 187744-19-0 187744-20-3  
187744-21-4 187744-26-9 187744-28-1  
RL: DEV (Device component use); USES (Uses)  
(thermal processing type silver halide photog. material contg. disulfide deriv. to improve color tone and reduce fog)

IT 3982-42-1P 4104-52-3P 4490-97-5P 4508-09-2P 14897-91-7P  
16766-10-2P 52017-43-3P 69200-87-9P **187744-16-7P**  
187744-18-9P 187744-22-5P 187744-23-6P 187744-24-7P 187744-25-8P  
187744-27-0P 187744-29-2P 187744-30-5P 187744-31-6P 187744-32-7P  
187744-33-8P  
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)  
(thermal processing type silver halide photog. material contg. disulfide deriv. to improve color tone and reduce fog)

L11 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2002 ACS  
AN 1997:183782 CAPLUS  
DN 126:287661  
TI Derivatives of 2-mercaptobenzenesulfonamide. XIX. Syntheses, anticancer and anti-HIV activities of some 2-(4-chloro-2-

mercaptobenzenesulfonylimino)perhydropyrimidines

AU Pomarnacka, Elzbieta

CS Department of Chemical Drug Technology, Medical University of Gdansk, Gdansk, 80-416, Pol.

SO Acta Pol. Pharm. (1996), 53(5), 373-378  
CODEN: APPHAX; ISSN: 0001-6837

PB Polish Pharmaceutical Society

DT Journal

LA English

CC 1-6 (Pharmacology)  
Section cross-reference(s): 28

AB Syntheses of some 2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrimidine derivs. are described. The moderate anticancer and weak anti-HIV activities were obsd. in vitro for some of the compds.

ST mercaptobenzenesulfonamide deriv prepn anticancer antiviral HIV; pyrimidine deriv prepn anticancer antiviral HIV

IT Antitumor agents  
Antiviral agents  
Human immunodeficiency virus 1  
(prepn. and anticancer and anti-HIV activities of 2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrimidines)

IT 188717-79-5P 188717-81-9P 188717-83-1P  
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. and anticancer and anti-HIV activities of 2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrimidines)

IT 95792-63-5P 156775-50-7P 189126-95-2P 189126-96-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and anticancer and anti-HIV activities of 2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrimidines)

IT 189126-97-4P 189126-98-5P 189126-99-6P 189127-01-3P 189127-02-4P  
189127-03-5P **189127-04-6P** 189127-05-7P 189127-06-8P  
189127-07-9P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and anticancer and anti-HIV activities of 2-(4-chloro-2-mercaptobenzenesulfonylimino)perhydropyrimidines)

L11 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2002 ACS

AN 1997:10653 CAPLUS

DN 126:117777

TI The "Thio-Arbuzov" reaction of sulfenate esters with sulfenyl chlorides: fate of the thiosulfinate product

AU Brown, Charles; Evans, Graham R.

CS Chem. Lab., Univ. Kent Canterbury, Canterbury, CT2 7NH, UK

SO Tetrahedron Lett. (1996), 37(50), 9101-9104  
CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier

DT Journal

LA English

CC 25-22 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

AB The further reaction of thiosulfinate esters (putative products of the thio-Arbuzov reaction of sulfenate esters with sulfenyl chlorides) with sulfenyl chlorides and sulfenate esters was studied. In the former case, sulfinyl chlorides and disulfides were formed. In the latter case sulfinate esters and disulfides were obtained. For example, the reaction of p-tolyl p-toluenethiosulfinate [i.e., 4-methylbenzenesulfinothioic acid

S-(4-methylphenyl) ester] with benzenesulfinyl chloride gave 4-methylbenzenesulfinyl chloride and a mixt. of disulfides, i.e., di-Ph disulfide, bis(4-methylphenyl)disulfide and (4-methylphenyl) Ph disulfide.

ST thio Arbuzov sulfenate sulfinyl chloride; benzenesulfenate thio Arbuzov reaction; benzenesulfinothioate thio Arbuzov reaction

IT Arbuzov reaction  
(thio; thio-Arbuzov reaction between sulfinyl chlorides and benzenesulfinothioates)

IT 931-59-9, Benzenesulfinyl chloride 6481-73-8, p-Tolyl p-toluenethiosulfinate 67764-21-0, 4-Methylbenzenesulfenic acid methyl ester 77329-76-1 133773-41-8 186098-93-1 **186098-94-2** 186098-96-4  
RL: RCT (Reactant)  
(thio-Arbuzov reaction between sulfinyl chlorides and benzenesulfinothioates)

IT 103-19-5P, Bis(4-methylphenyl)disulfide 672-78-6P, Methyl p-toluenesulfinate 882-33-7P, Diphenyldisulfide 2943-20-6P, tert-Butyl phenyl disulfide 4032-80-8P, Bis(2-methylphenyl)disulfide 10439-23-3P,  
4-Methylbenzenesulfinyl chloride 16066-33-4P 20333-41-9P, Bis(3-methylphenyl)disulfide 29627-34-7P, 4-Methylphenyl phenyl disulfide 57266-34-9P, Methyl 4-methylphenyl disulfide 63369-67-5P, 2-Methylbenzenesulfinyl chloride 83878-24-4P, 2-Methylphenyl phenyl disulfide 98147-48-9P 186098-95-3P **186098-97-5P**  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(thio-Arbuzov reaction between sulfinyl chlorides and benzenesulfinothioates)

=> end

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

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STN INTERNATIONAL LOGOFF AT 10:57:20 ON 11 JAN 2002

L2 ANSWER 1 OF 6 MEDLINE  
AN 2000097090 MEDLINE  
DN 20097090  
TI A small-molecule catalyst of protein folding in vitro and in vivo.  
AU Woycechowsky K J; Witttrup K D; Raines R T  
CS Department of Biochemistry, University of Wisconsin-Madison 53706, USA.  
NC GM08505 (NIGMS)  
SO CHEMISTRY AND BIOLOGY, (1999 Dec) 6 (12) 871-9.  
Journal code: CNA. ISSN: 1074-5521.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 200004  
EW 20000402  
AB BACKGROUND: The formation of native disulfide bonds between cysteine residues often limits the rate and yield of protein folding. The enzyme protein disulfide isomerase (PDI) catalyzes the interchange of disulfide bonds in substrate proteins. The two -Cys-Gly-His-Cys- active sites of PDI provide a thiol that has a low **pKa** value and a **disulfide** bond of high reduction potential (Eo'). RESULTS: A synthetic small-molecule dithiol, (+/-)-trans-1,2-bis(2-mercaptoacetamido)cyclohexane (BMC), has a pKa value of 8.3 and an Eo' value of -0.24 V. These values are similar to those of the PDI active sites. BMC catalyzes the activation of scrambled ribonuclease A, an inactive enzyme with non-native disulfide bonds, and doubles the yield of active enzyme. A monothiol analog of BMC, N-methylmercaptoacetamide, is a less efficient catalyst than BMC. BMC in the growth medium of *Saccharomyces cerevisiae* cells increases by > threefold the heterologous secretion of *Schizosaccharomyces pombe* acid phosphatase, which has eight disulfide bonds. This effect is similar to that from the overproduction of PDI in the *S. cerevisiae* cells, indicating that BMC, like PDI, can catalyze protein folding in vivo. CONCLUSIONS: A small-molecule dithiol with a low thiol **pKa** value and high **disulfide** Eo' value can mimic PDI by catalyzing the formation of native disulfide bonds in proteins, both in vitro and in vivo.